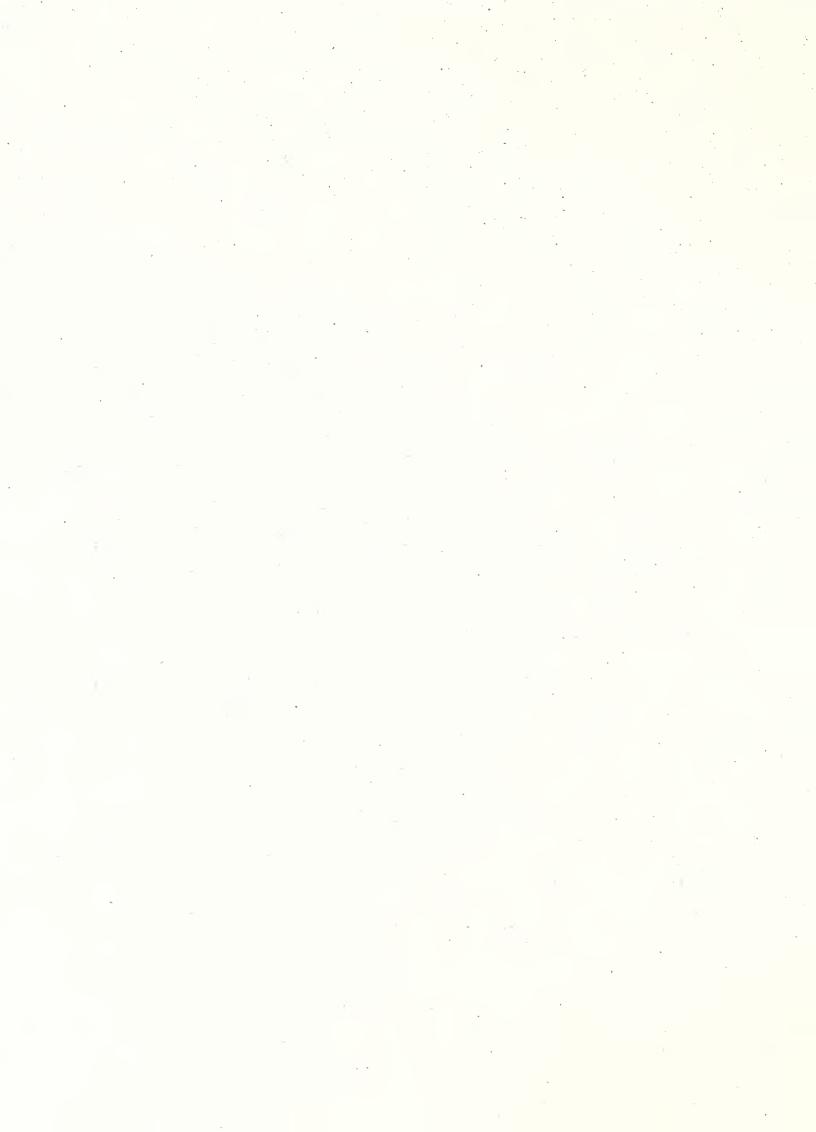
# Photographic Record Cascade Mine Drainage

DSL-AMRB 91-001 Near Towns of Centerville, Stockett and Belt Cascade County, Montana



December, 1992 Robert Peccia & Associates



#### ATTACHMENT H

Photographs/Slides

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#### CASCADE MINE DRAINAGE PROJECT

Only two copies of this final report were submitted with photographs and/or slides. Those copies reside with the Department of State Lands - Abandoned Mine Reclamation Bureau. A listing of the photograph/slide legend is provided below. Please contact the AMRB to obtain project photographs.

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Number	<u>Date</u>	Site Name Description
1	8/1/91	Centerville C site: existing access culvert area prior to removing.
2	8/1/91	Centerville C site: existing access culvert area prior to removing.
3	8/1/91	Centerville C site: mobilizing equipment and materials.
4	8/1/91	Centerville C site: mobilizing equipment and materials.
5	8/1/91	Centerville C site: removing existing access culvert with backhoe and loader.
6	8/1/91	Centerville C site: existing wetland access prior to work.
7	8/1/91	Centerville C site: removing existing access culvert with backhoe and loader.
8	8/1/91	Centerville C site: removing existing access culvert with backhoe and loader.
9	8/07/91	Centerville C site: trench for interceptor drain #1 showing seeps in trench wall.
10	8/07/91	Centerville C site: trench for interceptor drain #1 showing seeps in trench wall.
11	8/07/91	Centerville C site: trench for interceptor drain #1 looking north towards existing 4" pipe. Note oxidized soils on trench wall.
12	8/07/91	Centerville C site: trench for interceptor drain #1 looking south. Note seepage in trench bottom.
13	8/07/91	Centerville C site: hole excavated to locate existing 4" pipe to tie in with interceptor drain #1.
14	8/08/91	Centerville C site: Placing geocomposite material for interceptor drain #1. The 2 x 4's are used to hold material in place against trench walls.
15	8/08/91	Centerville C site: Excavating trench for interceptor drain #1. Backhoe is filling trench with geocomposite material in place.
16	8/08/91	Centerville C site: Excavating trench for interceptor drain #1. Backhoe is filling trench with geocomposite material in place.
17	8/08/91	Centerville C site: Excavating trench for interceptor drain #1. Backhoe is backfilling trench with geocomposite material in place.
18	8/08/91	Centerville C site: interceptor drain #1 partially backfilled with geocomposite material in place.

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Number	<u>Date</u>	Site Name Description
19	8/12/91	Centerville C site: placing geocomposite material with perforated pipe in interceptor drain #1.
20	8/12/91	Centerville C site: placing second layer of geocomposite material in trench for interceptor drain #1. The second tier was added to get more complete collection of acid seepage.
21	8/12/91	Centerville C site: partially backfilled interceptor drain #1. Looking north at one cleanout.
22	8/12/91	Centerville C site: looking north at partially backfilled interceptor drain #1.
23	8/12/91	Centerville C site: regraded slope above interceptor drain #1 looking south between last two cleanouts.
24	8/13/91	Centerville C site: excavating trench for interceptor drain #1.
25	8/13/91	Centerville C site: area prepared for excavation of interceptor drain #2.
26	8/13/91	Centerville C site: form placed in trench for bentonite seal to be poured at junction of perforated and PVC pipe in interceptor drain #1.
27	8/14/91	Centerville C site: temporary tie in with existing 4" pipe for interceptor drain #2.
28	8/14/91	Centerville C site: backfilling interceptor drain #2. Note seepage in trench bottom.
29	8/14/91	Centerville C site: acid mine drainage seeping from trench wall of interceptor drain #2. (Note clay horizon at base of trench.)
30	8/15/91	Centerville C site: cleanout installed in interceptor drain #2.
31	8/15/91	Centerville C site: backfilling interceptor drain #2.
32	8/15/91	Centerville C site: close up of cleanout installed in perforated pipe in interceptor drain #2.
33	8/15/91	Centerville C site: unloading manholes with crane. Manhole weighed approximately 17,000 pounds.
34	8/19/91	Centerville C site: looking west from interceptor drain #3 towards cleared and grubbed wetland cells.
35	8/19/91	Centerville C site: prepared area for excavating interceptor drain #3.



Number	Date	Site Name	Description
36	8/19/91	Centerville C site	placing service hole #1.
37	8/19/91	Centerville C site	placing service hole #1.
38	8/19/91	#3. Approximate	Existing 4" pipe when cut to place tie in for interceptor drain y 20 gpm flowed from pipe. This water was backed up in the ue to clogging in the pipe.
39	8/19/91	#3. Approximate	Existing 4" pipe when cut to place tie in for interceptor drain y 20 gpm flowed from pipe. This water was backed up in the ue to clogging in the pipe.
40	8/20/91		water flowing from wall of trench for interceptor drain #3 near ue to backed up water in pipe.
41	8/20/91		water flowing from wall of trench for interceptor drain #3 near ue to backed up water in pipe.
42	8/20/91	Centerville C site	cleaning existing 4" pipe using water jet.
43	8/20/91		cleaning existing 4" pipe using water jet. Pipe flowed full for seconds then dissipated to 5 gpm.
44	8/20/91	Centerville C site	flow in existing 4" pipe after cleaning with water jet.
45	8/20/91		looking west from interceptor drain #3 towards cleared and cells. Note service hole #1 in place and cleared and grubbed ne.
46	8/21/91		excavating trench for interceptor drain #3. Fill is being hauled khoe for use in backfilling the trench.
47	8/21/91		double cleanout installed in existing 4" pipe above interceptor ere no cleanouts in the existing pipe.
48	8/21/91		looking west from interceptor drain #3 towards cleared and cells. Note service hole #1 in place and initiation of excavation
49	8/21/91	Centerville C site:	form for bentonite seal in interceptor drain #3.
50	8/21/91	Centerville C site: east at Centerville	view from west of highway (at mouth of Heal Coulee) looking C site.



Number	Date	Site Name Description	
51	8/22/91	Centerville C site: French drain intercepted during excavation of interest. The drain is located approximately 60 ft from the existing 4" p downslope, perpendicular to interceptor drain #3. The perforate French drain was not flowing.	ipe and runs
52	8/22/91	Centerville C site: French drain intercepted during excavation of interest. The drain is located approximately 60 ft from the existing 4" p downslope, perpendicular to interceptor drain #3. The perforated French drain was not flowing.	ipe and runs
53	8/22/91	Centerville C site: French drain intercepted during excavation of inte #3. The drain is located approximately 60 ft from the existing 4" p downslope, perpendicular to interceptor drain #3. The perforated French drain was not flowing.	ipe and runs
54	8/22/91	Centerville C site: French drain intercepted during excavation of inte #3. The drain is located approximately 60 ft from the existing 4" p downslope, perpendicular to interceptor drain #3. The perforated French drain was not flowing.	ipe and runs
55	8/22/91	Centerville C site: geocomposite material placed across Freminterceptor drain #3.	nch drain in
56	8/22/91	Centerville C site: partially backfilled interceptor drain #3. Note triple at end of trench.	tiered fabric
57	8/22/91	Centerville C site: area prepared for excavation of trench for intercep	otor drain #4.
58	8/22/91	Centerville C site: area prepared for excavation of trench for intercep	otor drain #4.
59	8/27/91	Stockett S.E.: mobilization to site and access entry preparation.	
60	8/29/91	Stockett S.E.: west slope excavation for interceptor drain and deexisting 4" PVC.	onnection to
61	8/29/91	Stockett S.E.: west slope exposed previous french drain near adit,	repaired.
62	8/29/91	Stockett S.E.: west slope excavation for interceptor drain and context existing 4" PVC.	onnection to
63	8/29/91	Stockett S.E.: west slope excavation for interceptor drain and context existing 4" PVC.	onnection to
64	9/3/91	Stockett S.E.: west slope excavation for interceptor drain with Cascleanout #40.	se 980, near



Number	Date	Site Name	Description
65	9/3/91	Stockett S.E.: west s near cleanout #40.	slope interceptor drain installation and backfill with loader,
66	9/3/91		slope interceptor drain installation, near cleanout #40, e wire attached to board and geocomposite to hold in place.
67	9/3/91	Stockett S.E.: west sl within layers of clay	ope interceptor drain installation, near cleanout #40, seeps soils.
68	9/10/91	Stockett S.E.: north vidrain.	west slope grading preparation for trenching of interceptor
69	9/10/91	Stockett S.E.: north vidrain.	west slope grading preparation for trenching of interceptor
70	9/10/91	Stockett S.E.: north v	vest slope existing seeps.
71	9/10/91	Stockett S.E.: north v	vest slope existing seeps.
72	9/10/91	Stockett S.E.: north v	vest slope existing seeps.
73	9/10/91	Stockett S.E.: north v	vest slope existing seeps.
74	9/10/91	Stockett S.E.: north v	vest slope existing seeps.
75	9/10/91	Stockett S.E.: north s	slope existing seeps.
76	9/10/91	Stockett S.E.: north s	slope existing seeps.
77	9/10/91	Stockett S.E.: north e	east slope existing seeps.
78	9/10/91	Stockett S.E.: north e	east slope existing seeps.
79	9/10/91	Stockett S.E.: east sl	ope existing seeps.
80	9/10/91	Stockett S.E.: east sl	ope existing seeps.
81	9/10/91	Stockett S.E.: south	east slope existing seeps.
82	9/10/91	Stockett S.E.: south	east slope existing seeps.
83	9/10/91	Stockett S.E.: east sl	ope existing access road.
84	9/10/91	Stockett S.E.: south	east coulee prior to work.



Number	Date	Site Name Description
85	9/10/91	Stockett S.E.: south end of site looking north.
86	9/10/91	Stockett S.E.: overview of south west end of site.
87	9/10/91	Stockett S.E.: overview of north west end of site.
88	9/10/91	Stockett S.E.: overview of south west end of site.
89	9/10/91	Stockett S.E.: overview of north west end of site.
90	9/10/91	Stockett S.E.: overview of north west end of site.
91	9/10/91	Stockett S.E.: overview of north slope existing seeps.
92	9/10/91	Stockett S.E.: overview of north west slope existing seeps.
93	9/10/91	Stockett S.E.: overview of north west slope existing seeps.
94	9/10/91	Stockett S.E.: overview of north east slope existing seeps.
95	9/10/91	Stockett S.E.: overview of north east slope existing seeps.
96	9/10/91	Stockett S.E.: overview of north east slope existing seeps.
97	9/10/91	Stockett S.E.: overview of south east slope existing seeps.
98	9/10/91	Stockett S.E.: overview of south east end of site and south east coulee.
99	9/11/91	Coversoil Borrow area: test holes.
100	9/11/91	Coversoil Borrow area: test holes.
101	9/11/91	Coversoil Borrow area: test holes.
102	9/11/91	Coversoil Borrow area: test holes.
103	9/11/91	Coversoil Borrow area: test holes.
104	9/11/91	Coversoil Borrow area: site overview, agricultural field.
105	9/11/91	Coversoil Borrow area: site overview, agricultural field.
106	9/11/91	Coversoil Borrow area: site overview, agricultural field.
107	9/11/91	Coversoil Borrow area: site overview, agricultural field.



Number	Date	Site Name	Description
108	9/11/91	Coversoil Borrow are	a: site overview, agricultural field.
109	9/11/91	Coversoil Borrow are	a: site overview, agricultural field.
110	9/17/91	Stockett S.E.: south	east coulee trench for interceptor drain.
111	9/17/91	Stockett S.E.: south	east coulee trench for interceptor drain.
112	9/17/91	Stockett S.E.: south	east coulee trench for interceptor drain.
113	9/17/91	Stockett S.E.: at so excavation, of interce	outh east coulee looking north, grade preparation for eptor drain.
114	9/17/91	Stockett S.E.: installing	ng SW service hole with crane.
115	9/17/91	Stockett S.E.: SW se	rvice hole, to date installation of valves and couplings.
116	9/18/91	Stockett S.E.: east sl	ope interceptor drain installation, water in trench.
117	9/18/91	Stockett S.E.: east sl	ope interceptor drain installation, water in trench.
118	9/18/91	Stockett S.E.: east sl	ope interceptor drain installation, water in trench.
119	9/18/91	Stockett S.E.: east s north.	slope interceptor drain installation, site overview looking
120	9/18/91	Stockett S.E.: east s north.	slope interceptor drain installation, site overview looking
121	9/19/91	Stockett S.E.: west s	ope site overview.
122	9/24/91	Stockett S.E.: south foreground.	east coulee, view from below, landowner fencing in
123	9/24/91	Stockett S.E.: east sl	ope view from below.
124	9/24/91	Stockett S.E.: east sle	ope view from below.
125	9/24/91	Stockett S.E.: north e	ast slope view from below.
126	9/24/91	Stockett S.E.: north s	lope view from below.
127	9/24/91	Stockett S.E.: west sl	ope overview.



Number	<u>Date</u>	Site Name Description
128	9/25/91	Centerville C site: applying bentonite to soil for preparation of premix soil/bentonite seal used for ends of interceptor drains and limestone trenches.
129	10/15/91	Centerville C site: wetland construction, scraper building up dike.
130	10/15/91	Centerville C site: wetland construction, scraper building up dike.
131	10/15/91	Centerville C site: wetland construction, grader working dike, D7 helping borrow fill material on north slope.
132	10/15/91	Centerville C site: wetland construction cell 1, tractor and compactor.
133	10/15/91	Centerville C site: wetland construction, grader working dike of cells 2 & 3, backhoe helping.
134	10/15/91	Centerville C site: D7 helping borrow fill material on north slope.
135	10/15/91	Centerville C site: wetland construction cell 1, tractor and compactor.
136	10/15/91	Centerville C site: wetland construction, grader working dike of cells 2 & 3.
137	10/15/91	Centerville C site: wetland construction, grader working dike of cells 2 & 3, freshly watered cell 2 for dust control.
138	11/13/91	Centerville C site: 1 of 3 panorama, wetland construction north end, loader moving coversoil.
139	11/13/91	Centerville C site: 2 of 3 panorama, wetland construction cells 2 & 3, fine grading with JD 555, motorgrader and D7. Case 980 excavating for pipe from limestone trench to service hole
140	11/13/91	Centerville C site: 3 of 3 panorama, wetland construction cells 1 & 2.
141	11/14/91	Stockett S.E.: south west end lime application by hand.
142	11/20/91	Centerville C site: upper area north of existing 4"PVC line, trench excavation for additional interceptor drain, little indication of seepage.
143	11/20/91	Centerville C site: cell 1 hand application and incorporation of bentonite with tiller attachment to tractor.
144	11/20/91	Centerville C site: cell 1 bentonite incorporation, cells 2 & 3 placement of weir outlet structures.



Number	Date	Site Name	Description
145	11/20/91	•	oper area north of existing 4"PVC line, trench excavation for drain, Case 980 excavator.
146	3/6/92	Stockett S.E.: acces	s junction near entrance and lime stockpile.
147	3/6/92	Stockett S.E.: outlet	of SW pipe in road ditch.
148	3/6/92	Stockett S.E.: west photo.	limestone trench with survey control point on left side of
149	3/6/92	Stockett S.E.: west I of photo.	imestone trench, looking south, Marko house in upper right
150	3/6/92	Stockett S.E.: future	location of west wetland channel.
151	3/6/92	Stockett S.E.: future	location of west wetland channel.
152	3/6/92	Stockett S.E.: future	location of west wetland channel.
153	3/6/92	Stockett S.E.: future wetland channel.	e location of west wetland channel and junction with north
154	3/6/92	Stockett S.E.: future	location of west wetland channel outlet.
155	3/6/92	Stockett S.E.: slope	below future location of west wetland channel.
156	3/6/92	Stockett S.E.: future	location of west wetland channel.
157	3/17/92	Centerville C site: w	etland cell 2 compaction of bentonite seal.
158	3/17/92	Centerville C site: w slope hump.	etland cell 2 compaction of bentonite seal, closeup shows
159	3/17/92	Centerville C site: w	etland cell 2 pipe trenching and installation.
160	3/17/92	Centerville C site: w	etland cell 2 pipe trenching and installation.
161	3/17/92	Centerville C site: wapplication on hill in	vetland cell 2 pipe trenching and installation. Hand lime background.
162	3/17/92	Centerville C site: ap	oplying lime by hand on upper slope, NE corner.
163	3/18/92		ompacting bentonite seal in wetland cell 2, wet conditions, nixing bentonite and soil in background.



Number	<u>Date</u>	Site Name Description
164	3/18/92	Centerville C site: lime incorporation and shaping with D7 cat at steep area #1, workers waiting for lime load behind Cat.
165	3/18/92	Centerville C site: steep area #1, using loader to deliver lime, placement and application by hand, backhoe incorporation of lime above.
166	3/23/92	Centerville C site: weekend precipitation created puddles in cells, required additional spreading/mixing in cell bottoms prior to compaction.
167	3/23/92	Centerville C site: premixing soil/bentonite seal with grader.
168	3/23/92	Centerville C site: premixing soil/bentonite seal with grader, loader helping and placing in premix pile left of loader. Manure and filter gravel stockpiles in background.
169	3/30/92	Stockett S.E.: shaping west wetland channel with JD 450.
170	3/30/92	Stockett S.E.: shaping west wetland channel with JD 510, spoils from north wetland channel in background.
171	3/30/92	Stockett S.E.: start of shaping north wetland channel, outlet end.
172	3/30/92	Stockett S.E.: start of shaping north wetland channel.
173	3/30/92	Stockett S.E.: NW limestone trench, forms and piping.
174	3/31/92	Stockett S.E.: west wetland channel bentonite soil seal incorporation.
175	3/31/92	Stockett S.E.: north wetland channel shaping and filling low spots with JD 450 and JD 555.
176	3/31/92	Centerville C site: start of excavation of surface water collection basin, bypass piping on right, wetland basins and coversoil stockpiles in background, service hole and limestone trench on left.
177	3/31/92	Centerville C site: cleaning out liner key trenches and cleaning basin bottom for liner preparation.
178	4/1/92	Centerville C site: cell 2 preparing cell bottom by spreading fine and thin layer of soil/bentonite mix to fill in voids > 1".
179	4/1/92	Centerville C site: cell 2 key trench, compacting soils around weir outlet structure.



Number	<u>Date</u>	<u>Site</u> <u>Name</u>	Description
180	4/1/92	Stockett S.E.: west compaction, lots of r	wetland channel after bentonite incorporation and before ock picking needed.
181	4/1/92	Stockett S.E.: west compaction, looking	wetland channel after bentonite incorporation and before north.
182	4/1/92	Stockett S.E.: north	wetland channel bentonite application.
183	4/1/92	Centerville C site: st	art of liner installation cell 2.
184	4/1/92	Centerville C site: lin	er seaming.
185	4/2/92	Stockett S.E.: bentor	nite incorporation north wetland channel.
186	4/2/92	Centerville C site: lin	er attachment to weir outlet structure.
187	4/2/92	Centerville C site: lin	er attachment to weir outlet structure.
188	4/2/92	Centerville C site: staramp at centralized c	art of gravel placement on cushion fabric, cell 1, built gravel cell access location.
189	4/3/92	Centerville C site: ce placement.	Il 2 and 3 after liner placement and before cushion fabric
190	4/3/92	Centerville C site: ce	Il 2 start of cushion fabric placement.
191	4/3/92	Centerville C site: ce	II 1 gravel placement, visitors in black.
192	4/3/92	Centerville C site: lim	nestone trench placement of cushion fabric prior to liner.
193	4/3/92	Centerville C site: lim of watchers.	estone trench placement of cushion fabric prior to liner, lots
194	4/3/92	Centerville C site: lim	estone trench liner placement by liner crew.
195	4/3/92	Stockett S.E.: west w	etland channel excavating key trenches at baffle locations.
196	4/3/92	9	litch witches to dig key trenches at wetland channels, west bund, north channel outlet background.
197	4/3/92		wetland channel baffle key trench, rough and prior to of bentonite/soil seal.
198	4/3/92	Centerville C site: line liner for limestone tre	er crew using available space at Centerville to prefabricate nches.



Number	Date	Site Name Description
199	4/4/92	Centerville C site: start of gravel placement in cell 2, built gravel ramp at centralized cell access location.
200	4/6/92	Stockett S.E.: west wetland channel compaction of bentonite/soil seal.
201	4/6/92	Stockett S.E.: excavating for repair of blocked pipe near SE coulee.
202	4/6/92	Stockett S.E.: SW limestone trench with liner and cushion fabric, west wetland channel in background.
203	4/7/92	Stockett S.E.: west wetland channel starting to place hypalon liner.
204	4/7/92	Stockett S.E.: west wetland channel just prior to liner placement. Note bags of gravel used to hold baffle key from collapse during forklift access.
205	4/7/92	Stockett S.E.: north wetland channel preparation for liner placement, key trench and basin cleaning.
206	4/7/92	Stockett S.E.: north wetland channel preparation for liner placement, key trenching with ditch witch.
207	4/7/92	Stockett S.E.: west wetland channel starting to place hypalon liner.
208	4/8/92	Stockett S.E.: north wetland channel preparation for liner placement, key trenching with JD 510 helping hold ditch witch from sliding.
209	4/8/92	Stockett S.E.: north wetland channel preparation for liner placement, key trenching with JD 510 helping hold ditch witch from sliding.
210	4/8/92	Stockett S.E.: north wetland channel preparation for liner placement, key trenching with JD 510 helping hold ditch witch from sliding, worker standing in rough baffle key trench.
211	4/8/92	Stockett S.E.: north wetland channel preparation for liner placement, filling over excavated baffle key trenches with premix of bentonite/soil then hand compacting and shaping.
212	4/9/92	Stockett S.E.: north wetland channel at telephone interceptor outlet prior to liner placement.
213	4/9/92	Stockett S.E.: north wetland channel at telephone interceptor outlet prior to liner placement.



Number	Date	Site Name	Description	
214	4/9/92		wetland channel, lay out of liner. Note bags used for in case of wind. Filter gravel in bags was later used as	
215	4/9/92	Stockett S.E.: north wetland channel, lay out of liner.		
216	4/13/92	Centerville C site: pe	forated pipe placement in wetland cell.	
217	4/13/92	Centerville C site: limestone aggregate placement in limestone trench.		
218	4/14/92	Centerville C site: limestone aggregate placement in limestone trench.		
219	4/14/92	Stockett S.E.: trenc placement.	h above telephone pole interceptor prior to PVC pipe	
220	4/14/92	Stockett S.E.: site ov PVC pipe placement	verview at trench above telephone pole interceptor during	
221	4/14/92	Stockett S.E.: site ov	erview at north end of site. Note stockpiled coversoil.	
222	4/14/92	Stockett S.E.: site ov	erview at north end of site.	
223	4/14/92	Stockett S.E.: NW lin	nestone trench, installing limestone aggregate.	
224	4/14/92	Stockett S.E.: limesto later.	ne trench common problem, tears of liner corners, patched	
225	4/14/92	Stockett S.E.: backfil	ling of telephone trench interceptor.	
226	4/15/92	Centerville C site: sit	e overview, stockpiles, park, highschool.	
227	4/15/92	Centerville C site: sit	e overview, stockpiles, water truck, park.	
228	4/15/92		overview, stockpiles, loader, park, start of peat placement ramp and peat spilled.	
229	4/15/92		site overview, stockpiles, loaders, town, start of peat Note gravel ramp in cell 2 and loader tracks on peat.	
230	4/15/92	Centerville C site: site Note gravel ramp in	e overview, loader, JD 450, final grading of gravel in cell 2. cell 2, lower left.	
231	4/15/92	Centerville C site: site	e overview, north slope and outlet channel.	
232	4/15/92	Stockett S.E.: west w	etland channel, hypalon liner in place.	



Number	Date	Site Name	Description
233	4/15/92		one trench corner tear in liner later patched, gap between m was later filled with bentonite/soil mix.
234	4/15/92	Stockett S.E.: limeste	one trench closeup of comer tear in liner.
235	4/15/92	Stockett S.E.: SW excavation and repa	imestone trench, S end, comer problems required re- r.
236	4/15/92	Stockett S.E.: SW excavation and repa	imestone trench, S end, comer problems required re- r.
237	4/16/92	Stockett S.E.: interse source water oxygen	ction of interceptor drains, downgradient crossover to match concentrations.
238	4/16/92	Stockett S.E.: interse source water oxygen	ction of interceptor drains, upgradient crossover to match concentrations.
239	4/21/92	Stockett S.E.: north o	hannel looking northeast during placement of riprap dikes.
240	4/21/92	Stockett S.E.: 1 of 5	panorama of west side from south end to north end.
241	4/21/92	Stockett S.E.: 2 of 5	panorama of west side from south end to north end.
242	4/21/92	Stockett S.E.: 3 of 5 555 hauling riprap.	panorama of west side from south end to north end. JD
243	4/21/92	Stockett S.E.: 4 of 5	panorama of west side from south end to north end.
244	4/21/92	Stockett S.E.: 5 of 5	panorama of west side from south end to north end.
245	4/22/92	Centerville C site: No	wly found hand close adit, before.
246	4/22/92	Centerville C site: Ne	wly found hand close adit, during.
247	4/22/92	Centerville C site: Ne	wly found hand close adit, after.
248	4/22/92		oking west at site from top of knoll. Note cell 1 with hay placing Peat-DCW. Limestone drain in center of photo.
249	4/22/92		f 4 panorama from south to north overlooking access road ark. Coversoil and manure stockpiles. Truck hauling Peat-
250	4/22/92	Centerville C site: 2 hay bale dikes in pla	of 4 panorama from south to north overlooking cell 1 with ce and manhole 1.



Number	Date	Site Name	Description
251	4/22/92		4 panorama from south to north cell 2 with gravel in place being placed. Note JD 450 fine grading peat.
252	4/22/92	Centerville C site: 4 of project. JD 450 on gr	4 panorama from south to north overlooking north end of avel ramp into cell 3.
253	4/24/92	Cell 2 + Cell 3. Cent	erville C site: peat-OM being mixed in cell 2 with loader.
254	4/24/92	Centerville C site: pear in cell 2.	-OM consisting of straw, limestone aggregate and manure
255	4/24/92	Centerville C site: cell	1 after being filled with fresh water.
256	4/27/92	Centerville C site: place 2.	sing straw with loader for peat-OM mix in north end of Cell
257	4/27/92	Centerville C site: cul	vert in place in north channel.
258	4/27/92	Centerville C site: stal	king hay bale dikes in cell 3.
259	4/28/92	Centerville C site: aug	er drilling post holes for fence on north end.
260	4/28/92	Centerville C site: mix	ing peat-OM with JD 450 in cell 2.
261	4/28/92	Centerville C site: char PVC pipe.	nnel on Marko's property, west of site. Note salvaged 12"
262	4/28/92	Centerville C site: look prior to installation.	ing west from cell 3 at Marko's channel. Note stock tank
263	4/28/92	Centerville C site: gratowards wetland.	aded channel on Marko's property. Looking southeast
264	4/28/92	Centerville C site: look	king east from Marko's property toward east slope.
265	4/28/92	Centerville C site: look	ring west at grade of channel on Marko's property.
266	4/28/92	Centerville C site: grad	ded area for stock tank placement.
267	4/28/93	Centerville C site: 1 of	2 panorama of wetland cells. JD 450 mixing peat-OM.
268	4/28/92	Centerville C site: 2 of along cell 2 dike.	2 panorama of wetland cells. Loader placing coversoil
269	4/30/92	Centerville C site: stra	w supply from Chartier property.



Number	Date	Site Name Descrip	tion
270	5/01/92	Centerville C site: unloading t	rees for Centerville Park.
271	5/01/92	Centerville C site: sprinkling v	vater on cattails at cell 1.
272	5/01/92	Centerville C site: planting ca	ttails in cell 3.
273	5/01/92	Centerville C site: planting ca	ttails in cell 3.
274	5/01/92	Centerville C site: planting ca	tails in cell 3.
275	5/01/92	Centerville C site: closeup of	cattails and best shovel type.
276	5/01/92	Centerville C site: excavation	for transplanting trees.
277	5/01/92	Centerville C site: transplanting	g trees.
278	5/04/92	Centerville C site: 1 of 4 pand	rama of wetland cells from south to north.
279	5/04/92	Centerville C site: 2 of 4 pand	rama of wetland cells from south to north.
280	5/04/92	Centerville C site: 3 of 4 pand	rama of wetland cells from south to north.
281	5/04/92	Centerville C site: 4 of 4 pand	rama of wetland cells from south to north.
282	5/05/92	Centerville C site: fresh water grading difficult.	from cell 3 released into Marko's channel making
283	5/05/92	Centerville C site: excavated Water in channel made final g	material from Marko's channel to correct grade. rading very difficult.
284	5/05/92	Centerville C site: water in Ma	rko's channel made final grading difficult.
285	5/05/92	Centerville C site: regrading M	larko channel to correct grade.
286	5/05/92	Centerville C site: regrading M	larko channel to correct grade.
287	5/05/92	Centerville C site: placing/mix	ng peat-OM in cell 2 with JD 450.
288	5/06/92	Stockett S.E.: incorporating lin	ne with disk on east side of site.
289	5/06/92	Stockett S.E.: limed area in so	outheast coulee.
290	5/06/92	Stockett S.E.: covering NE lim	estone trench.
291	5/06/92	Stockett S.E.: covering NE lim	estone trench.



Number	Date	Name Description
292	5/13/92	Centerville C site: 1 of 5 panorama from south to north, fuel truck.
293	5/13/92	Centerville C site: 2 of 5 panorama from south to north, loader, trees in park.
294	5/13/92	Centerville C site: 3 of 5 panorama from south to north, loader, cells 1 and 2.
295	5/13/92	Centerville C site: 4 of 5 panorama from south to north, cells 2 and 3.
296	5/13/92	Centerville C site: 5 of 5 panorama from south to north, cell 2, loader placing coversoil on north slope.
297	5/13/92	Centerville C site: grading west side of wetland dikes.
298	5/13/92	Centerville C site: west side wetland, moving coversoil.
299	5/13/92	Centerville C site: north channel final grade, grading west side wetland dikes.
300	5/13/92	Centerville C site: north channel and placing coversoil on north slope.
301	5/13/92	Centerville C site: grade on west side of wetland dikes.
302	5/13/92	Centerville C site: grading west side of wetland dikes and placing coversoil on north slope.
303	5/13/92	Stockett S.E.: north wetland channel peat placement.
304	5/13/92	Stockett S.E.: north wetland channel peat placement.
305	5/14/92	Stockett S.E.: cleanout # 39 leaking again.
306	5/19/92	Stockett S.E.: repair of southwest interceptor drain found to be plugged and was backed-up and leaking from cleanout #39 up gradient.
307	5/19/92	Stockett S.E.: repair of southwest interceptor drain. Excavation of old trench to expose geocomposite and pipe.
308	5/19/92	Stockett S.E.: repair of southwest interceptor drain. Excavation of old trench to expose geocomposite and pipe.
309	5/19/92	Stockett S.E.: leaking cleanout indicating a plugged interceptor drain.
310	5/19/92	Stockett S.E.: leaking cleanout indicating a plugged interceptor drain.
311	5/19/92	Stockett S.E.: SE limestone trench ready to be covered, bypass line installation on right.



Number	<u>Date</u>	Site Name	Description
312	5/19/92	•	sed geocomposite in southwest interceptor drain. (Note vered by geocomposite.)
313	5/20/92	Stockett S.E.: partisinterceptor drain interceptor	ally crushed perforated pipe found while trying to tie new poexisting pipe.
314	5/20/92	Stockett S.E.: partial interceptor drain d	ally crushed perforated pipe found while trying to tie new o existing pipe.
315	5/20/92	Stockett S.E.: geoc	omposite in place at tie-in for new interceptor drain.
316	5/20/92	Stockett S.E.: geoca	omposite in place at tie-in for new interceptor drain.
317	5/20/92	Stockett S.E.: excav	rating trench for new interceptor drain.
318	5/20/92	Stockett S.E.: new shows exposed tren	interceptor drain installed at seep on north end of project; ich wall.
319	5/20/92	Stockett S.E.: backf	illing new interceptor drain (3 tiers of geocomposite).
320	5/20/92	Stockett S.E.: SW li	mestone trench after being graded.
321	5/20/92	Stockett S.E.: SW li	mestone trench outlet to south wetland channel.
322	5/20/92		wetland channel looking north. Shows wetland cells filled one aggregate and riprap dikes.
323	5/20/92	Stockett S.E.: SW n	nanhole after grading.
324	5/20/92	Stockett S.E.: limin replaced due to crus	g slope on south west end where interceptor drain was shed pipe.
325	5/21/92	Stockett S.E.: adit #	1 after closure.
326	5/21/92	Stockett S.E.: adit #	1 showing opening which needs further closure.
327	5/21/92	Stockett S.E.: adit #	1 after closure looking north.
328	5/26/92	Stockett S.E.: geoco	mposite and perforated pipe prefabrication and installation.
329	5/26/92	Stockett S.E.: geoco	mposite and perforated pipe prefabrication and installation.
330	5/26/92	Stockett S.E.: trenchill.	excavation for additional interceptor drain on lower north



Number	Date	Site Name Description
331	5/26/92	Stockett S.E.: trench excavation for additional interceptor drain on lower north hill.
332	5/26/92	Stockett S.E.: sewer snaking at cleanout # 57.
333	5/26/92	Stockett S.E.: two precipitate type extracted during snaking of cleanout # 57.
334	5/26/92	Stockett S.E.: west side outlet pipe in road ditch.
335	5/26/92	Stockett S.E.: west side outlet pipe in road ditch.
336	5/26/92	Stockett S.E.: west side outlet pipe in road ditch after removal of elbow.
337	5/26/92	Stockett S.E.: trench at tie in location of additional north interceptor drain.
338	5/26/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain.
339	5/26/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain.
340	5/26/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain.
341	5/26/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain.
342	5/26/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain.
343	5/28/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain, repairing overnight and 5/27/92 weather day collapsed trench.
344	5/28/92	Stockett S.E.: installation of geocomposite at additional north interceptor drain, repairing overnight collapsed trench.
345	5/28/92	Stockett S.E.: down gradient of SW service hole, cause of plug evident from cleanout # 57, replaced with straight pipe.
346	5/28/92	Stockett S.E.: down gradient of SW service hole, cause of plug evident from cleanout # 57, replaced with straight pipe. Note precipitate in pipe.
347	5/28/92	Stockett S.E.: start of excavation to find plug in interceptor drain at SE coulee.
348	5/28/92	Stockett S.E.: start of excavation to find plug in interceptor drain at SE coulee.
349	5/28/92	Stockett S.E.: exposed geocomposite in interceptor drain at SE coulee.
350	5/28/92	Stockett S.E.: closeup of sewer snake end on left and sewer tape end on right.



Number	Date	Site Name	Description
351	6/01/92	Stockett S.E.: remo	oving spoils pile at confluence of north and south wetland
352	6/01/92	Stockett S.E.: north bypass line shown.	wetland channel filled with sediment from recent rains, flow
353	6/01/92	Stockett S.E.: north	wetland channel filled with sediment from recent rains.
354	6/01/92		wetland channel near telephone pole showing side slope el after recent rain and plugged bypass pipeline.
355	6/01/92	Stockett S.E.: north far bank.	wetland channel showing lime after incorporated by hand on
356	6/02/92	Stockett S.E.: view interceptor drain.	of cleanout #11 prior to replacement of perforated pipe in
357	6/02/92	Stockett S.E.: excav	vation near cleanout #11 to expose interceptor drain.
358	6/02/92	Stockett S.E.: top of	f existing geocomposite exposed near cleanout #11.
359	6/02/92	Stockett S.E.: crush	ed perforated pipe being cut out and replaced.
360	6/02/92	Stockett S.E.: perfoready for backfill.	rated pipe and geocomposite replaced near cleanout #11;
361	6/02/92	Stockett S.E.: area	near cleanout #11 after replacement and backfill.
362	6/02/92	•	emposite and PVC pipe near cleanout #9 being exposed for lent of perforated pipe. Shovel tip is on perforated pipe.
363	6/02/92		ed perforated pipe exposed and being removed and replaced Clay clod backfill likely culprit.
364	6/03/92	Stockett S.E.: crushe near cleanout #9.	ed perforated pipe exposed and being removed and replaced
365	6/03/92	Stockett S.E.: close	up of crushed pipe replaced near cleanout #9.
366	6/03/92	Stockett S.E.: close	up of crushed pipe replaced near cleanout #9.
367	6/03/92		ering section of crushed perforated pipe by hand at cleanout PVC line is from the SE Coulee interceptor drain source.



Number	Date	Site Name	Description
368	6/03/92		ving section of crushed perforated pipe near cleanout #9. osite is cut to expose perforated pipe.)
369	6/03/92		ving section of crushed perforated pipe near cleanout #9. osite is cut to expose perforated pipe.)
370	6/03/92	•	g geocomposite patch around replaced section of crushed cleanout #9. (Note replaced perforated pipe is black.)
371	6/03/92	•	g geocomposite patch around replaced section of crushed cleanout #9. (Note replaced perforated pipe is black.)
372	6/03/92	Stockett S.E.: adit #	1 after second attempt to close.
373	6/03/92	Stockett S.E.: adit #	1 after all openings adequately closed.
374	6/03/92		of 2 panorama of site from north to south. Shows stilling er and sediment. Sediment was removed later.
375	6/03/92	Centerville C site: 2 most of cell 2.	of 2 panorama of site from north to south. Shows cell 3 and
376	6/04/92	Stockett S.E.: cutting near cleanout #27.	geocomposite material to expose crushed perforated pipe
377	6/04/92	•	ed section of crushed perforated pipe near cleanout #27. in place along trench wall.)
378	6/04/92		ed sections of perforated pipe (2' and 5') replaced near I method and type suspect in crushing problem.
379	6/04/92		ing perforated pipe prior to replacing crushed section to blockage. Additional blockage found approximately 30 feet
380	6/04/92	Stockett S.E.: placin (black).	ng geocomposite patch around replaced perforated pipe
381	6/04/92	Stockett S.E.: backfil	ling replaced section of interceptor drain near cleanout #27.
382	6/04/92	Stockett S.E.: placing near cleanout #28.	g geocomposite patch around replaced perforated pipe (2')
383	6/04/92	Centerville C site: JD slope to incorporate	555 with rippers lowered preparing to go down steep east lime.



Number	Date	<u>Site</u> <u>Name</u>	Description
384	6/04/92	Centerville C site: JD	555 ripping east slope to incorporate lime.
385	6/04/92	Centerville C site: JD	555 ripping east slope to incorporate lime.
386	6/04/92	Centerville C site: ea	ast slope after one pass with rippers. Slope was ripped porate lime.
387	6/04/92	Centerville C site: tell liming and prior to fin	rrace on east slope (location of interceptor drain #3) after al grading.
388	6/08/92	Centerville C site: cat compared to cell 1.	tails in cell 3 (planted 5/01/92) showing poor cattail growth
389	6/08/92	Centerville C site: ca surface.	ttails in cell 3 (planted 5/01/92). Floating green scum on
390	6/08/92	Centerville C site: cat (green tops) compare	tails in cell 1 (planted 5/01/92) showing good cattail growth ed to cell 3.
391	6/08/92	Stockett S.E.: expose	ed geocomposite and perforated pipe near cleanout #27.
392	6/08/92	Stockett S.E.: inserting to replacing crushed	g sewer tape in pipe to check for additional blockage prior perforated pipe.
393	6/08/92	Stockett S.E.: crushe cleanout #27.	ed perforated pipe removed from interceptor drain near
394	6/08/92	Stockett S.E.: crushe	ed perforated pipe removed from interceptor drain near lods and rock backfill culprit.
395	6/08/92	Stockett S.E.: excava	ting second location near cleanout #28.
396	6/08/92	Stockett S.E.: expose #28.	ed crushed perforated pipe prior to removal near cleanout
397	6/08/92	Stockett S.E.: excava	ting a second location near cleanout #27.
398	6/08/92	Stockett S.E.: expos location near cleanou	ed crushed perforated pipe prior to removal at second t #27.
399	6/08/92	Stockett S.E.: close u	p of crushed perforated pipe from previous photo.
400	6/08/92	Stockett S.E.: close u	p of crushed perforated pipe from previous photo.

Number	Date	Site Name	Description
401	6/08/92	•	d interceptor drain at second location near cleanout #27 Another section of crushed pipe was discovered 4 feet
402	6/08/92	Stockett S.E.: addition	al crushed perforated pipe near cleanout #27.
403	6/09/92	Stockett S.E.: total of 1 #27.	1' of crushed perforated pipe removed from near cleanout
404	6/09/92	Stockett S.E.: geocom cleanout #27.	posite patch placed around replaced perforated pipe near
405	6/09/92	Stockett S.E.: backfill backfill.	repaired interceptor drain near cleanout #27. Note clay
406	6/09/92	Stockett S.E.: excavat	on to expose crushed perforated pipe near cleanout #26.
407	6/09/92	Stockett S.E.: replace near cleanout #26.	d 4' section of perforated pipe and geocomposite patch
408	6/09/92	Stockett S.E.: head of blockages.	sewer tape used to snake perforated pipe to locate pipe
409	6/09/92	Stockett S.E.: patched	interceptor drain damaged during excavation.
410	6/09/92	Centerville C site: lime	ed soil from Marko's channel placed on north slope.
411	6/09/92	Centerville C site: lime	ed east slope prior to coversoil placement.
412	6/09/92		slope during coversoil placement. Coversoil was pushed down from terrace using D-7 dozer.
413	6/09/92	Centerville C site: spre 555 loader transporting	eading coversoil on east slope using D-7 dozer. Note JD g coversoil to terrace.
414	6/10/92	•	d geocomposite and perforated pipe at second location oth perforated pipe and geocomposite were crushed.
415	6/10/92	Stockett S.E.: crushed suspect.	perforated pipe removed near cleanout #26. Backfill
416	6/10/92	Stockett S.E.: patched crushed perforated pip	geocomposite near cleanout #21 after replacing 1.5' of e.



Number	Date	Site Name	Description
417	6/10/92	Stockett S.E.: exporplugged perforated p	sing interceptor drain near cleanout #38. Water is from pipe.
418	6/10/92	Stockett S.E.: crush	ed perforated pipe to be removed near cleanout #38.
419	6/10/92	Stockett S.E.: trench	wall showing exposed interceptor drain near cleanout #38.
420	6/10/92		ed perforated pipe (rock on pipe during backfill) removed 38. Pipe was partially filled with orange silt shown on right.
421	6/10/92	Centerville C site: ea	ast slope prepared for placement of erosion control mat.
422	6/10/92	Centerville C site: ea	ast slope prepared for placement of erosion control mat.
423	6/11/92	Centerville C site: ea	ast slope prepared for placement of erosion control mat.
424	6/11/92	Centerville C site: 1 toward Marko's prop	of 2 panorama of site. Limed soils on north slope. Looking erty (west).
425	6/11/92	Centerville C site: 2 far center and cell 3	of 2 panorama of site. Note culvert on right, stock tank in on far left.
426	6/11/92	Stockett S.E.: crushe	ed perforated pipe being removed near cleanout #42.
427	6/11/92	Stockett S.E.: crushe	ed perforated pipe being removed near cleanout #42.
428	6/11/92	Stockett S.E.: close	up of crushed perforated pipe removed near cleanout #42.
429	6/22/92		of photo shows geocomposite around crushed perforated 46. Rock was removed from this spot.
430	6/22/92		ated interceptor drain to expose crushed perforated pipe lote backfill. Close up of pipe is shown in previous photo.
431	6/22/92	Centerville C site: la every 50' down slope	ying erosion control mat over east slope. Mat is keyed in e.
432	6/22/92	Centerville C site: la every 50' down slope	ying erosion control mat over east slope. Mat is keyed in e.
433	6/22/92	Centerville C site: ke	y trench on terrace at top of east slope.
434	6/22/92	Centerville C site: lay top of slope and eve	rying erosion control mat on east slope. Mat is keyed in at ry 50' downslope.



Number	<u>Date</u>	Site Name	Description
435	6/23/92	Centerville C site: hy up approximately 10	droseeding on upper east slope. Hydroseed being pumped 0'.
436	6/23/92	Stockett S.E.: slump liming.	ped area near north wetland channel after reshaping and
437	6/23/92		g upstream at north wetland channel from previous photo. el is leaking from inlet to channel because temporary by-
438	6/23/92	Stockett S.E.: upstre pipe) is plugged.	eam end of north wetland channel. By-pass (1" black PVC
439	6/23/92	Stockett S.E.: hydros from road.	seeding portions of wetland channel which could be reached
440	6/23/92	Stockett S.E.: hydros from road.	seeding portions of wetland channel which could be reached
441	6/23/92	Stockett S.E.: expos	ing crushed perforated pipe near cleanout #50.
442	6/23/92	•	ated pipe removed from interceptor drain near cleanout #50. s shape several hours after being removed.
443	6/23/92	Stockett S.E.: geoconsecond location near	omposite cut back to expose crushed perforated pipe at cleanout #50.
444	6/23/92	Stockett S.E.: close	up of crushed perforated pipe from previous photo.
445	6/23/92	Stockett S.E.: geoco cleanout #51.	mposite cut back to expose crushed perforated pipe near
446	6/23/92	Stockett S.E.: geoco cleanout #51.	mposite cut back to expose crushed perforated pipe near
447	6/23/92	Stockett S.E.: close (#51.	up of removed crushed perforated pipe from near cleanout
448	6/23/92	Stockett S.E.: geocci second location near	emposite cut back to expose crushed perforated pipe at cleanout #51.
449	6/24/92	Stockett S.E.: close t	up of crushed perforated pipe removed from near cleanout



Number	Date	Site Name	<u>Description</u>
450	6/24/92	#27. This pipe ha	e up of crushed perforated pipe removed from near cleanout as already been replaced once. During previous backfill, ed on pipe instead of careful placement.
451	6/24/92	Centerville C site: h	hydromulched slope and terrace above east slope.
452	6/24/92		riew down east slope from terrace. Hydroseed was sprayed ontrol mat as recommended by the manufacturer.
453	6/24/92		view from terrace of east slope of hydromulched areas in s property and on cell dike walls.
454	6/24/92		view from terrace of east slope of hydromulched areas in s property and on cell dike walls.
455	6/24/92		of 2 panorama from south to north overlooking cell 1 and n cell 2 where JD 555 was used to dump coversoil on dike
456	6/24/92		2 of 2 panorama overlooking cell 2 and cell 3. Note some I 3, compared to 6/8/92, also weed growth in cell 2.
457	6/24/92	Centerville C site: h	hydromulched east slope.
458	6/25/92	Stockett S.E.: prep (center).	pared seed bed prior to seeding near southeast coulee
459	6/25/92	Stockett S.E.: prepcoulee.	pared seed bed. View looking northwest from southeast
460	6/25/92		ing near southeast coulee. Brillon drill not distributing seed oadcast from back of JD 555.
461	6/25/92	Stockett S.E.: seede channel.	ed, fertilized and mulched area along sides of north wetland
462	6/25/92	Stockett S.E.: seede channel.	ed, fertilized and mulched area along sides of north wetland
463	6/25/92	Stockett S.E.: slump and mulching.	o area along north wetland channel after seeding, fertilizing
464	6/25/92	Stockett S.E.: conf mulching.	luence of wetland channels after seeding, fertilizing and



Number	Date	Site Name	Description
465	6/25/92	Stockett S.E.: using coulee.	Bowie mulcher to blow mulch on area near southeast
466	6/25/92		d perforated pipe removed from third location near cleanout caught and torn during sewer snaking or taping.
467	6/25/92		d perforated pipe removed from third location near cleanout caught and torn during sewer snaking or taping.
468	6/30/92	Centerville C site: us peat-OM into cell 2 fo	ing plywood path for Bobcat in cell 2. Bobcat is carrying or fine grading.
469	6/30/92	Centerville C site: pe	c-mat placed in channel from stilling basin to culvert.
470	6/30/92		cing pec-mat in channel down stream from culvert. Mat is not every 50' down length of channel.
471	7/07/92	Stockett S.E.: 1 of 3 p seeding. Shows com	anorama of site taken from road from north to south during pleted area.
472	7/07/92	Stockett S.E.: 2 of 3 p seeding. North wetla	anorama of site taken from road from north to south during nd channel in center.
473	7/07/92	Stockett S.E.: 3 of 3 p seeding.	anorama of site taken from road from north to south during
474	7/08/92	Centerville C site: sto	ck tank in place north of cell 3 outlet.
475	7/08/92	Centerville C site: sto	ck tank in place looking south toward cell 3.
476	7/08/92	Centerville C site: sto	ck tank in place with control valve in foreground.
477	7/08/92	Centerville C site: out protection.	let from cell 3 (stock tank by-pass) in channel with riprap
478	7/08/92	Centerville C site: 1 c	of 3 panorama of site from south to north. Shows cell 1.
479	7/08/92		of 3 panorama of site from south to north. Shows cell 1. wood path for Bobcat during placement of hay bale dikes
480	7/08/92	Centerville C site: 3 outlet to cell 3 in cent	of 3 panorama of site from south to north. Shows cell 2 er.
481	7/08/92	Stockett S.E.: using E	Sowie mulcher to blow mulch over seeded areas.



Number	Date	<u>Site</u> <u>Name</u>	Description
482	7/08/92	Stockett S.E.: using Be	owie mulcher to blow mulch over seeded areas.
483	7/08/92	Stockett S.E.: main ac seeder.	ccess to north end of site, just after seeding with Brillion
484	7/23/92	Centerville C site: mul	ching wetland access and staging areas.
485	7/23/92	Centerville C site: mul	ching wetland access and staging areas.
486	7/29/92	Centerville C site: site	overview.
487	7/29/92	Centerville C site: uppe	er NE corner finished slope above terrace, grass growing.
488	7/29/92	Belt Subsidence site:	access prior to work.
489	7/29/92	Belt Subsidence site:	access and subsidence prior to work.
490	7/29/92	Belt Subsidence site:	access prior to work.
491	7/29/92	Belt Subsidence site:	exploratory excavation of subsidence.
492	7/29/92	Belt Subsidence site: r	mobilizing rock backfill.
493	7/29/92	Belt Subsidence site:	unloading rock backfill.
494	7/29/92	Belt Subsidence site:	unloading rock backfill.
495	7/29/92	Belt Subsidence site: f	inal backfilling and grading.
496	7/30/92	Centerville C site: plan	iting cattails in cell 2.
497	7/30/92	Centerville C site: site	overview.
498	7/31/92	Centerville C site: water	ering newly planted cattails.
499	8/6/92	Centerville C site: 1 of	4 site panorama, access and park.
500	8/6/92	Centerville C site: 2 of cattails.	4 site panorama, park and wetland cells, planting last of
501	8/6/92	Centerville C site: 3 of	4 site panorama, planting last of cattails.
502	8/6/92	Centerville C site: 4 of	4 site panorama, north end.
503	8/6/92	Stockett S.E.: west slo	pe grass starting to show.

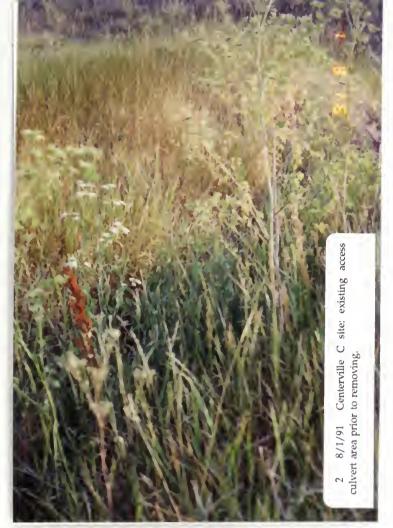


Number	Date	Name Description
504	8/12/92	French Coulee site: exposed manhole location, excavation for valve in background.
505	8/12/92	French Coulee site: inside manhole after grouting.
506	8/12/92	French Coulee site: inside manhole after grouting.
507	8/12/92	French Coulee site: installed valve prior to backfill.
508	8/12/92	French Coulee site: installed valve riser prior to backfill.
509	8/12/92	French Coulee site: broken cleanout riser after excavation.
510	8/12/92	French Coulee site: broken cleanout riser after excavation.
511	8/12/92	French Coulee site: replacement cleanout riser prior to backfill.



















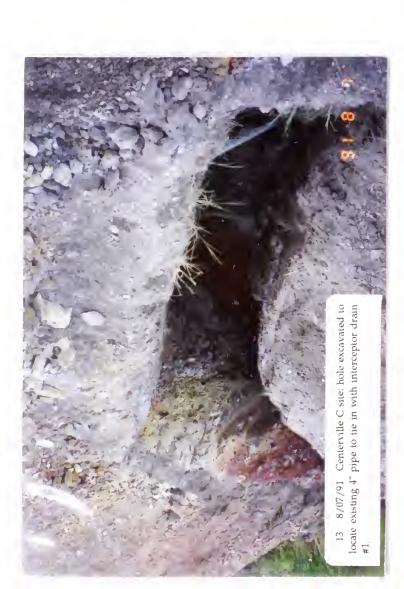




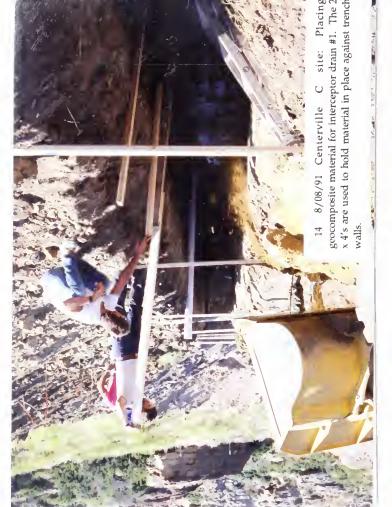


10 8/07/91 Centerville C site: trench for interceptor drain #1 showing seeps in trench wall.

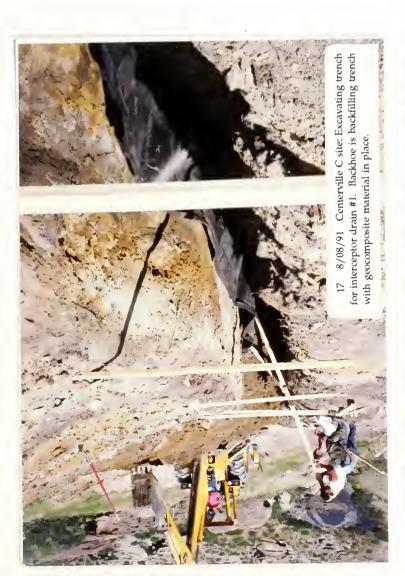


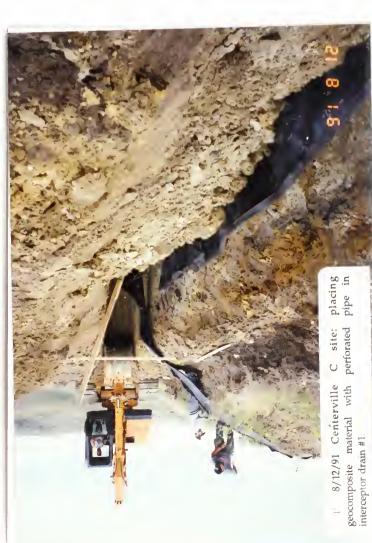


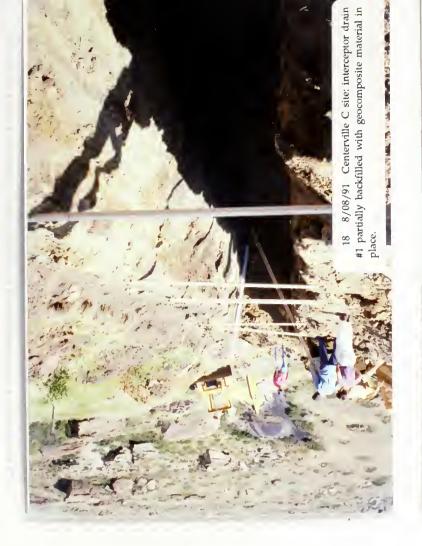
















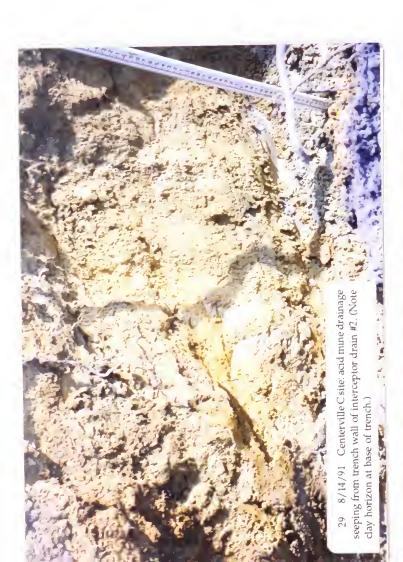


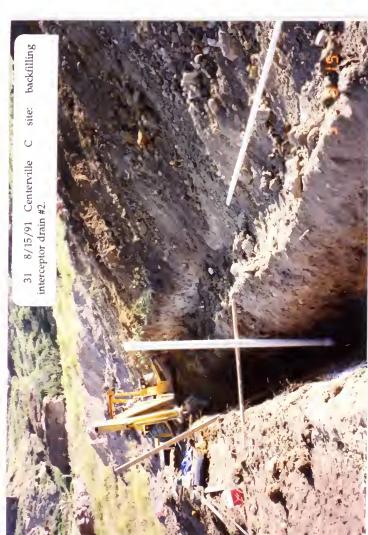








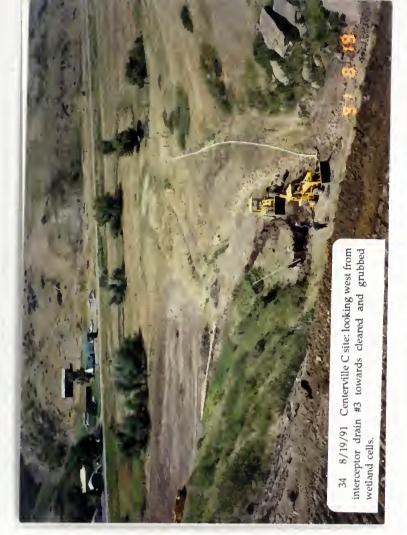














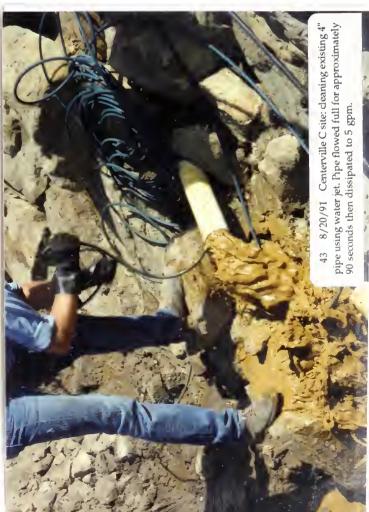


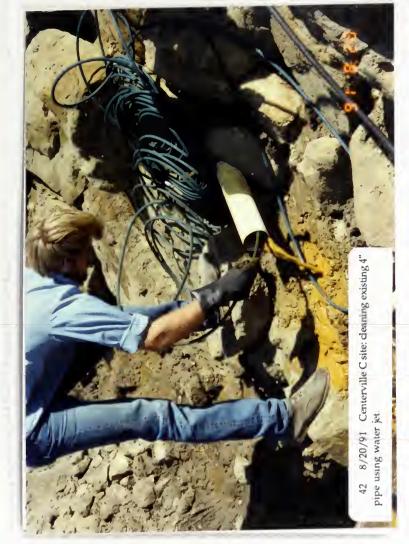


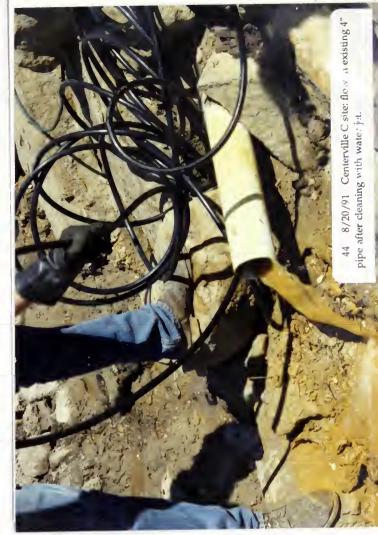




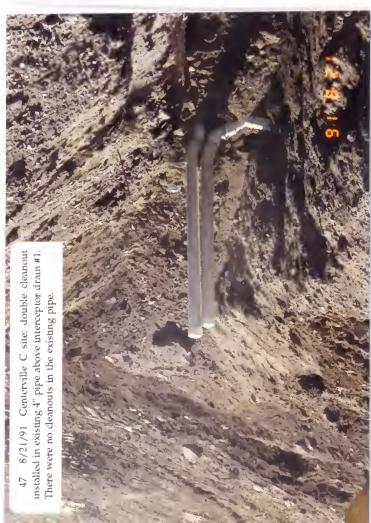






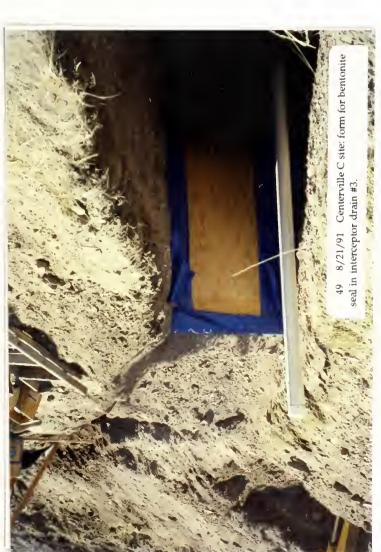




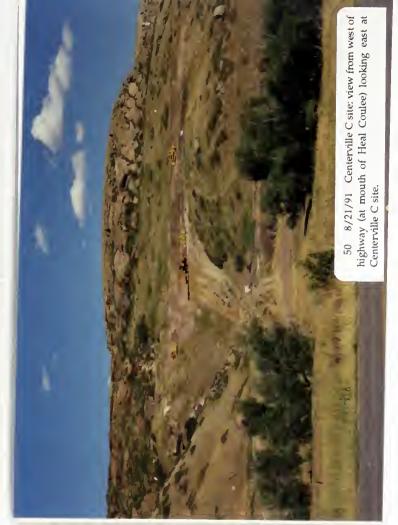












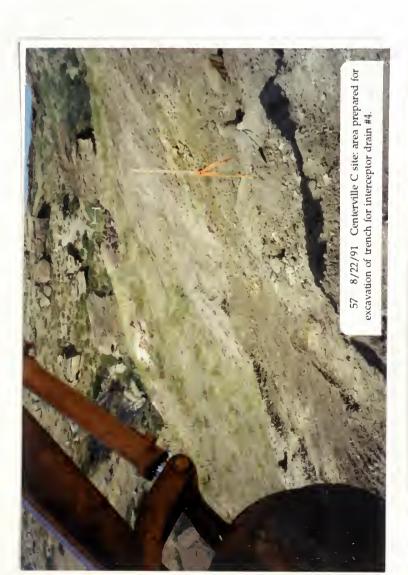




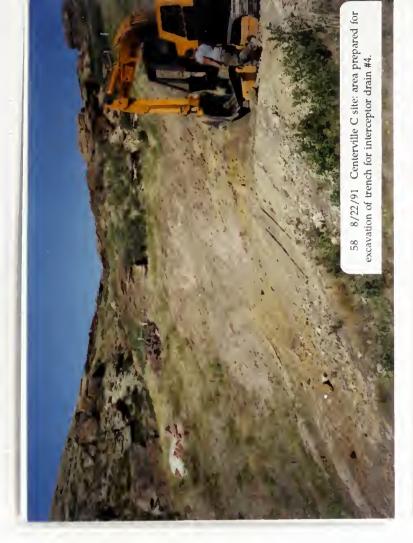




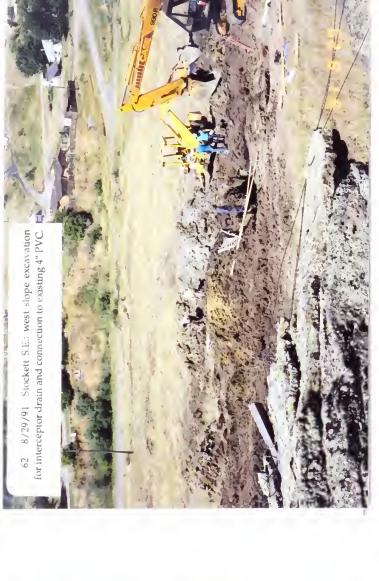






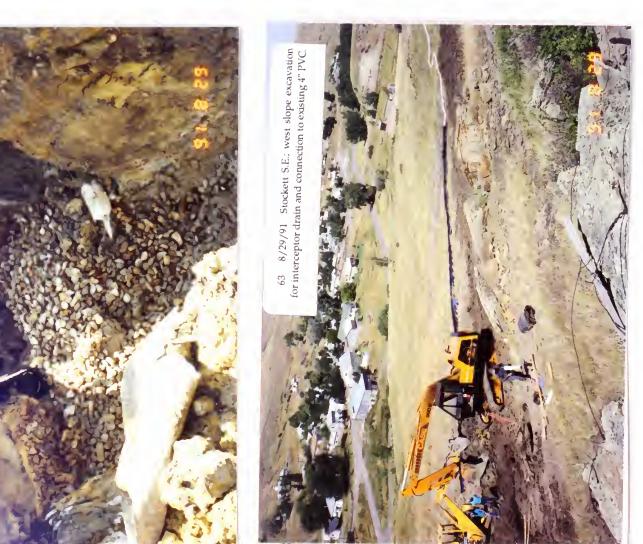


60 8/29/91 Stockett S.E.: west slope excavation for interceptor drain and connection to existing 4" PVC.

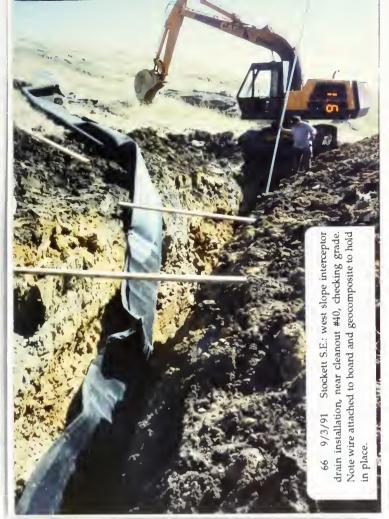


8/29/91 Stockett S.E.: west slope exposed

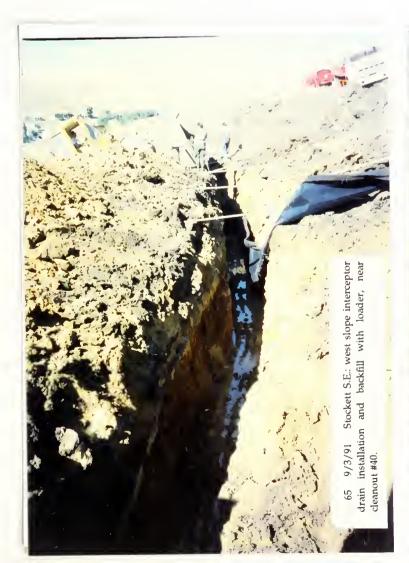
previous french drain near adit, repaired.

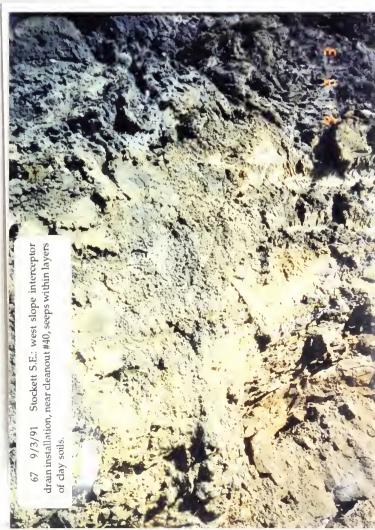


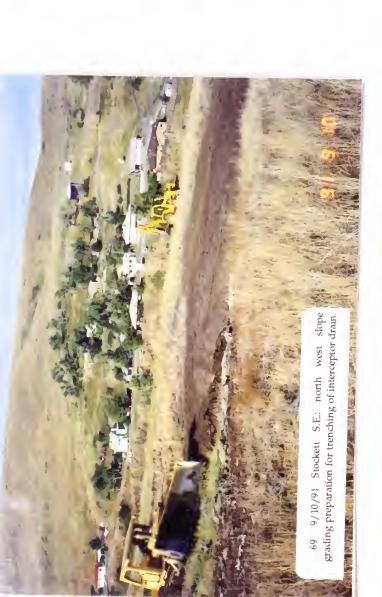
64 9/3/91 Stockett S.E.: west slope excavation for interceptor drain with Case 980, near cleanout #40.

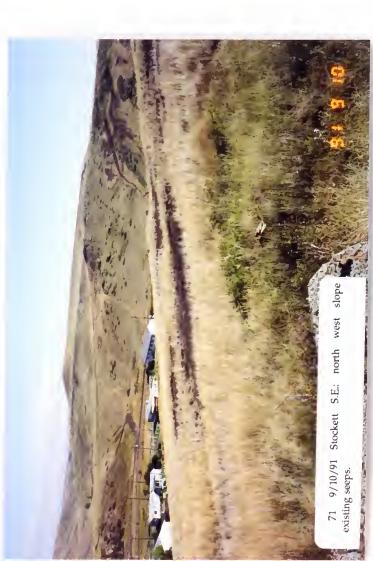


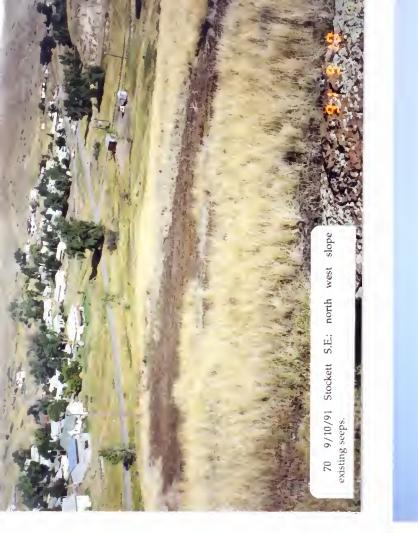




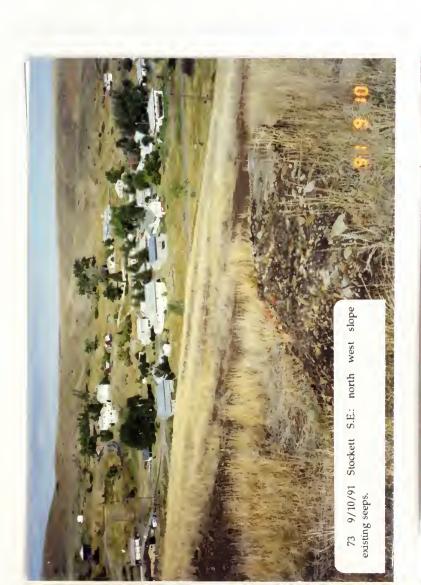






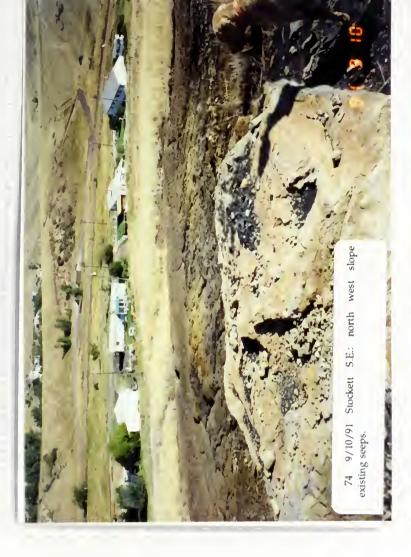




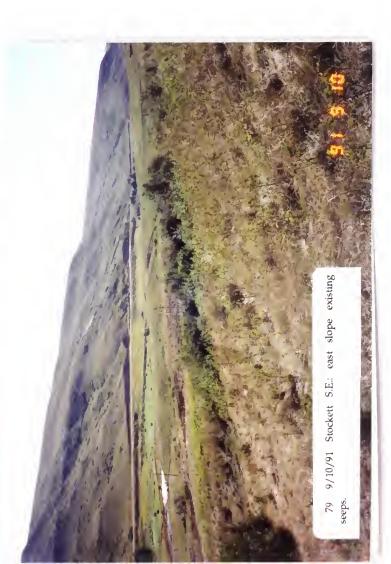




76 9/10/91 Stockett S.E.: north slope existing seeps.





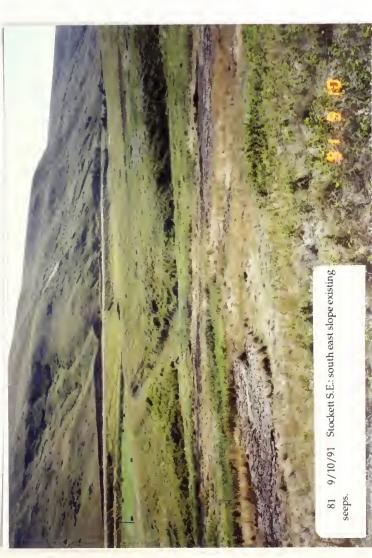


80 9/10/91 Stockett S.E.: east slope existing seeps.









86 9/10/91 Stockett S.E.: overview of south west end of site.



87 9/10/91 Stockett S.E.: overview of north west end of site.





88 9/10/91 Stockett S.E.: overview of south west end of site.





91 9/10/91 Stockett S.E.: overview of north slope existing seeps.



90 9/10/91 Stockett S.E.: overview of north west end of site.

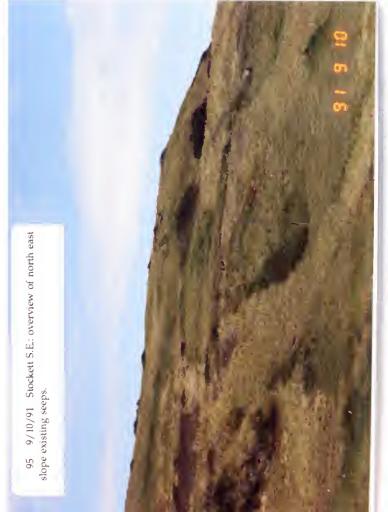


92 9/10/91 Stockett S.E.: overview of north west slope existing seeps.



94 9/10/91 Stockett S.E.: overview of north east slope existing seeps.



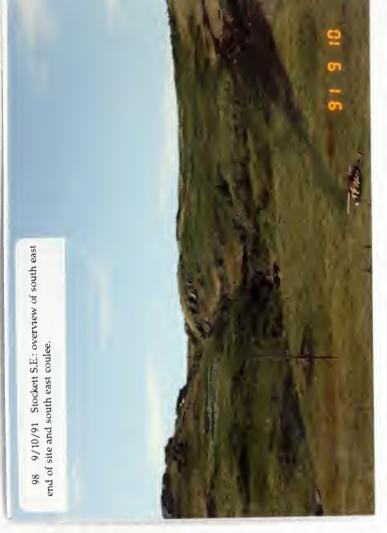




96 9/10/91 Stockett S.E.: overview of north east slope existing seeps.



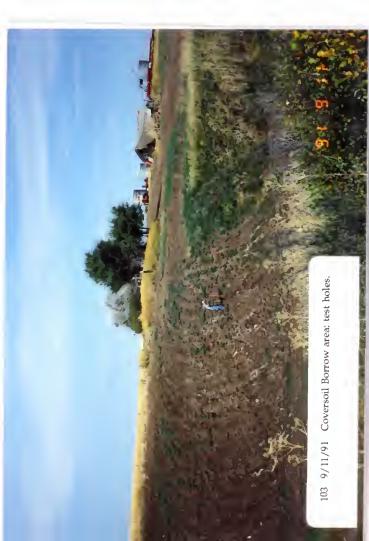




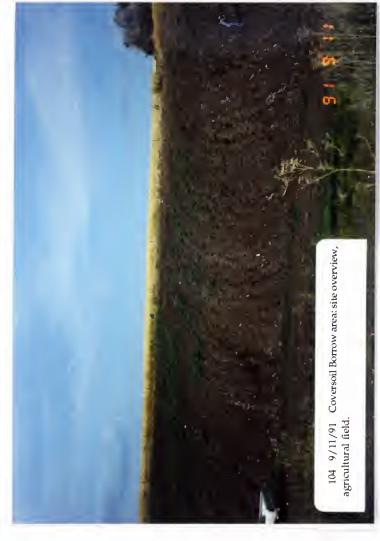


100 9/11/91 Coversoil Borrow area: test holes.

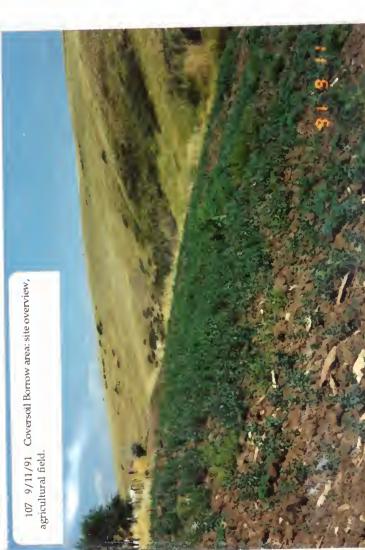


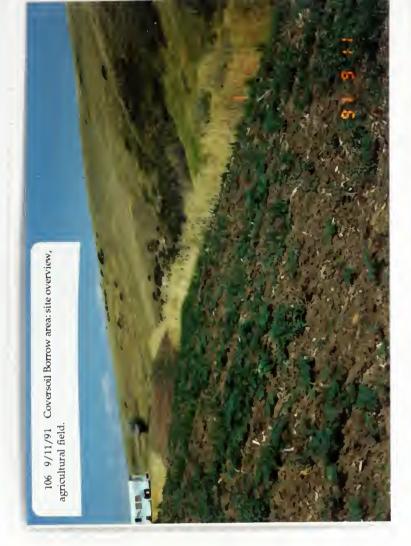








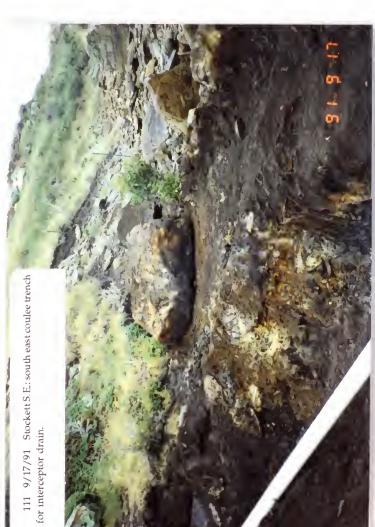




108 9/11/91 Coversoil Borrow area: site overview,

agricultural field.





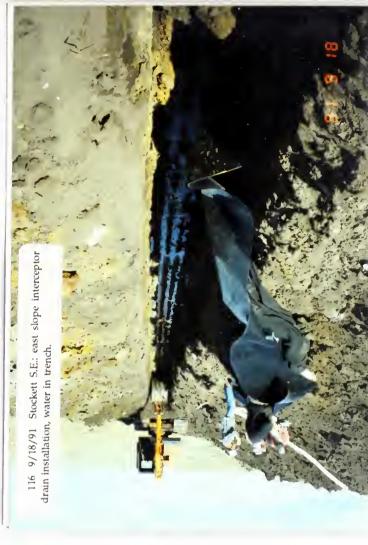




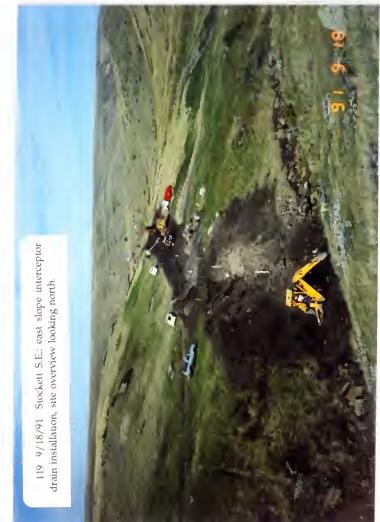








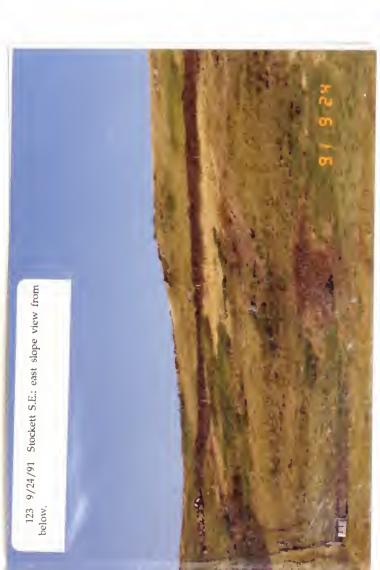




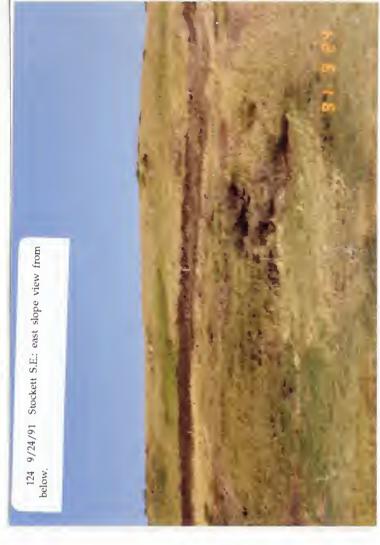




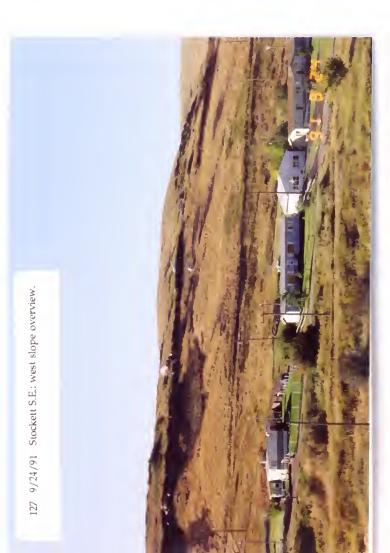








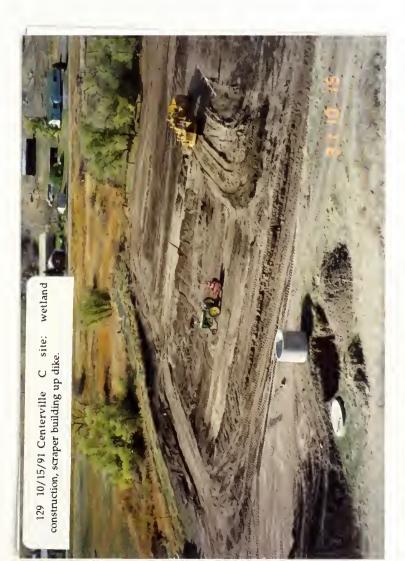




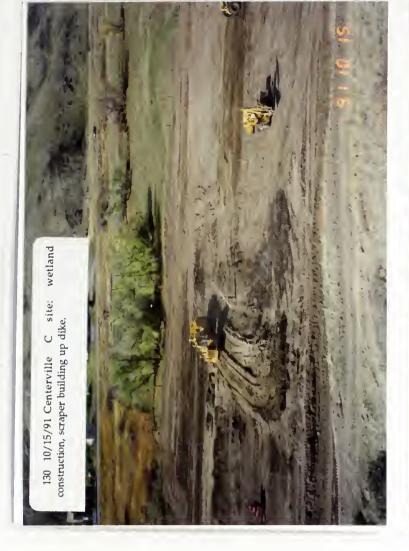
below.

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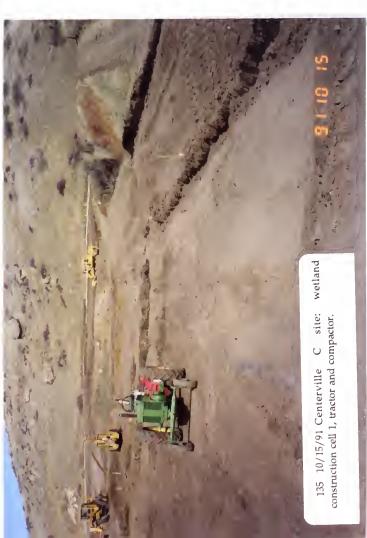




wetland

132 10/15/91 Centerville C site: construction cell 1, tractor and compactor.









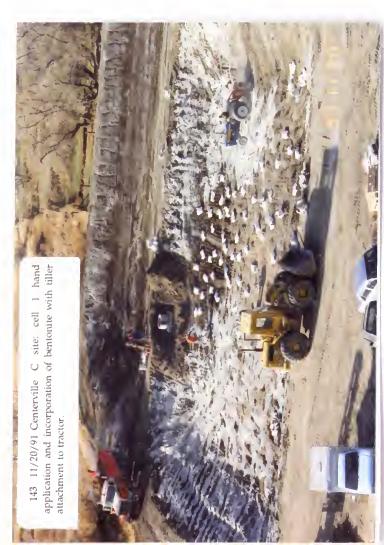








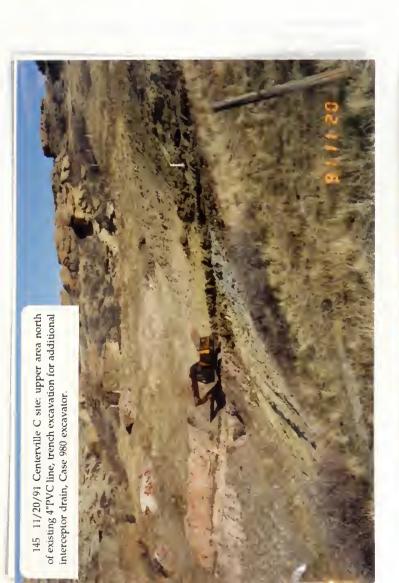






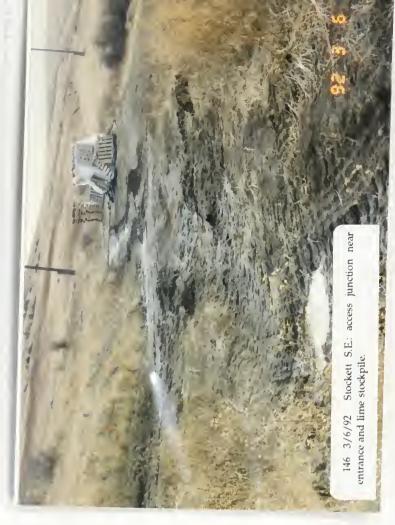
142 11/20/91 Centerville C site: upper area north of existing 4"PVC line, trench excavation for additional





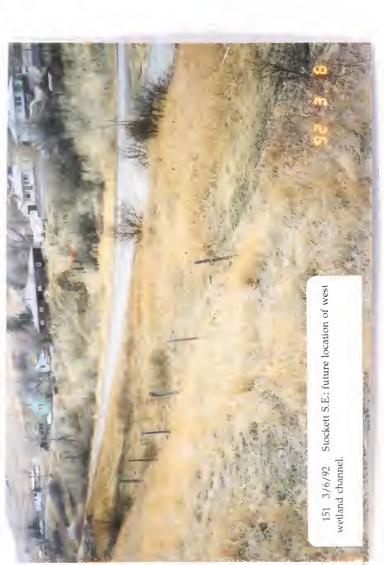


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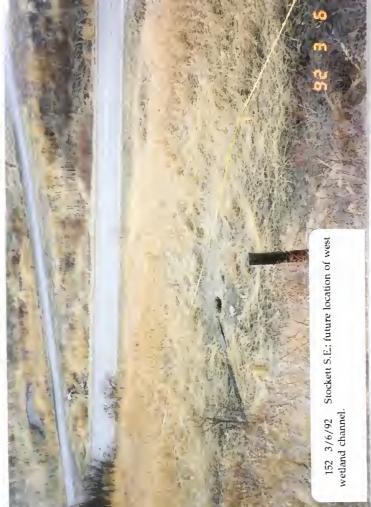






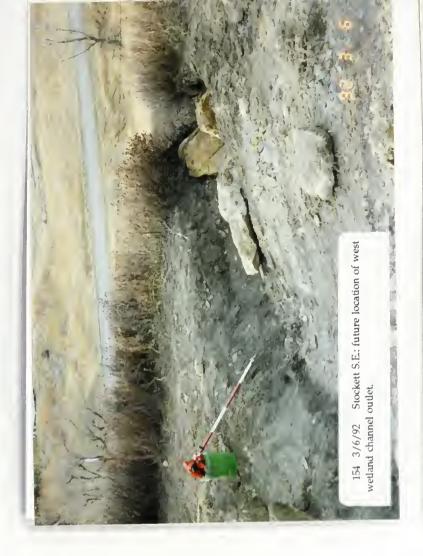


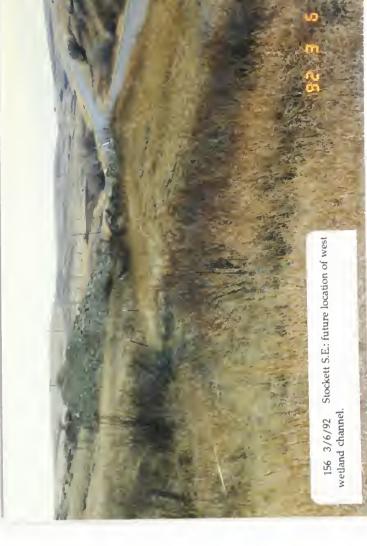




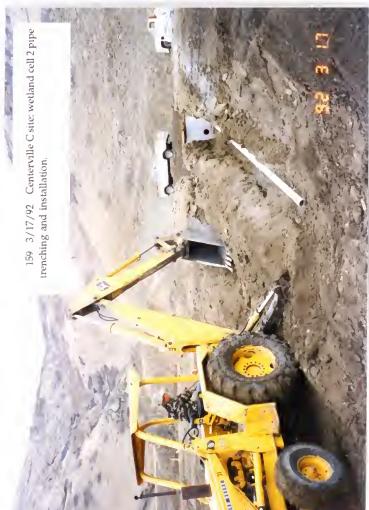


















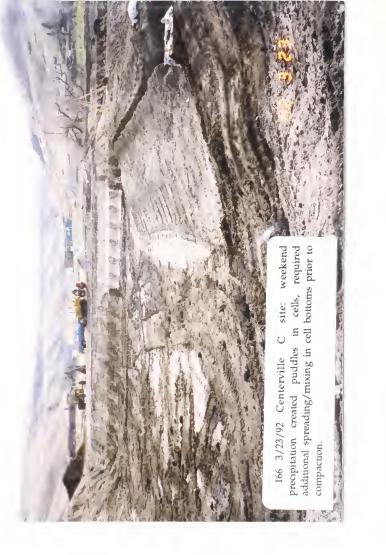




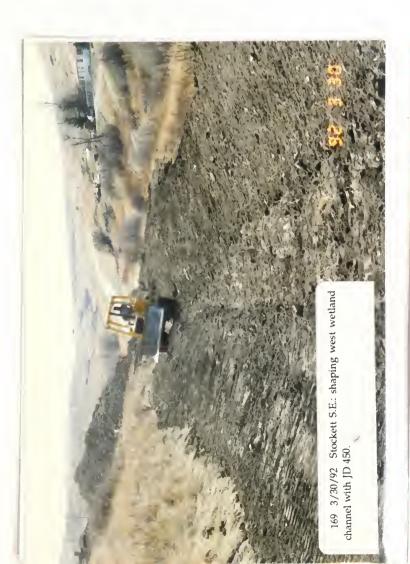






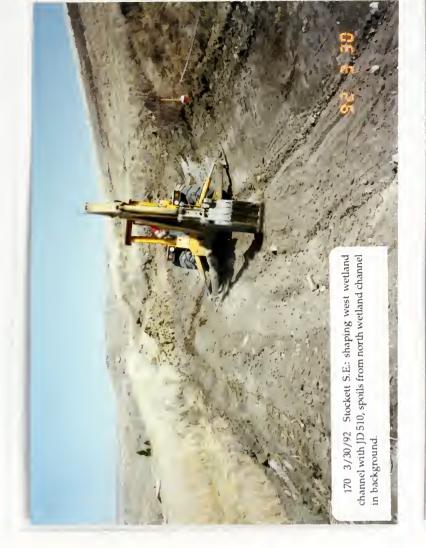








172 3/30/92 Stockett S.E.: start of shaping north wetland channel.

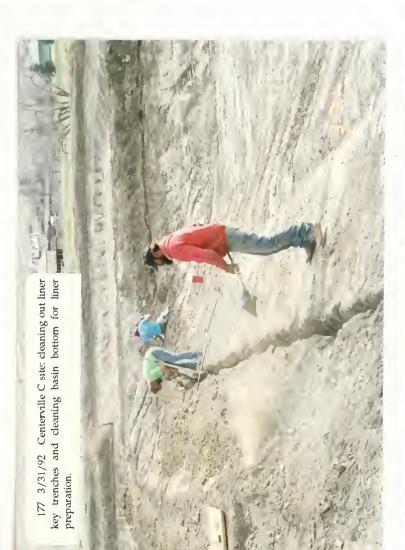














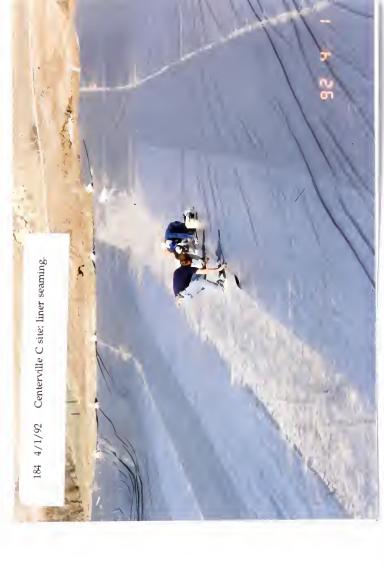






182 4/1/92 Stockett S.E.: north wetland channel

bentonite application.









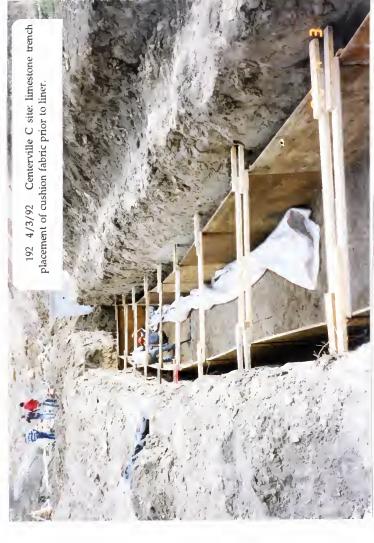
188 4/2/92 Centerville C site: start of gravel placement on cushion fabric, cell 1, built gravel ramp at centralized cell access location.















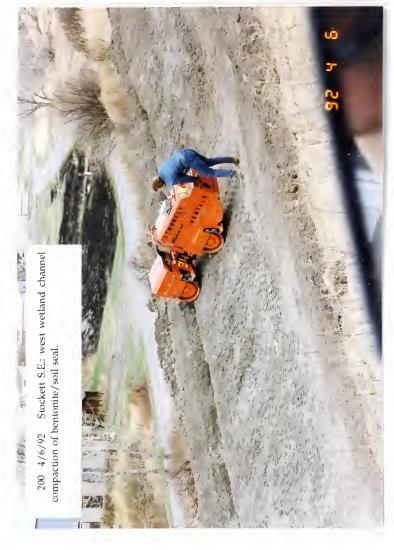


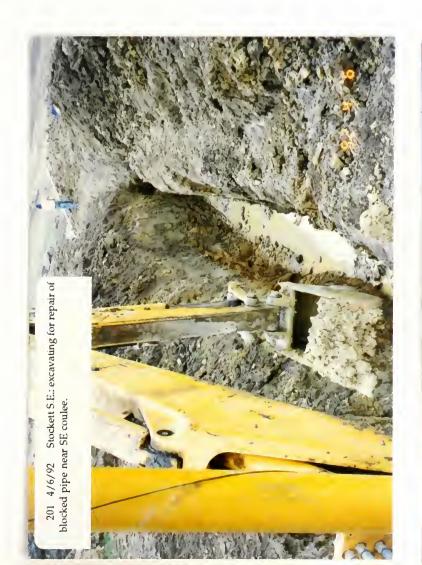
















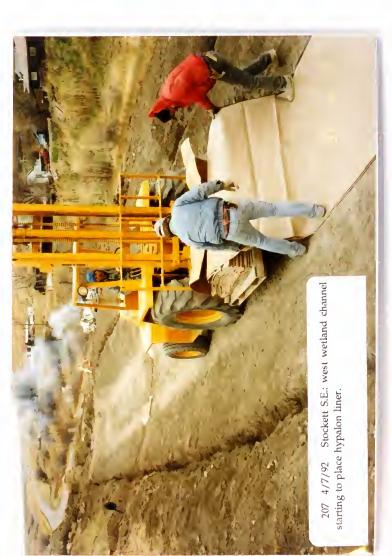


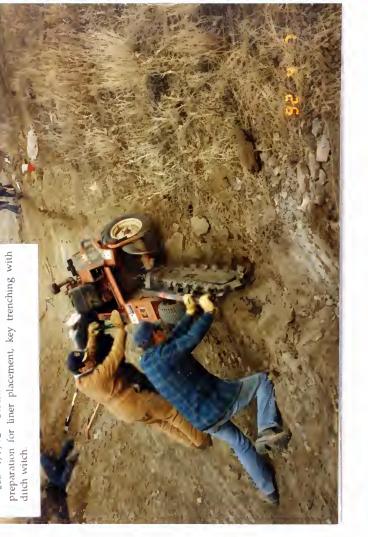
205 + 77/92 Stockett S.E. north wedand channel preparation for liner placement, key trench and basin cleaning.

Stockett S.E.: north wetland channel

206 4/7/92







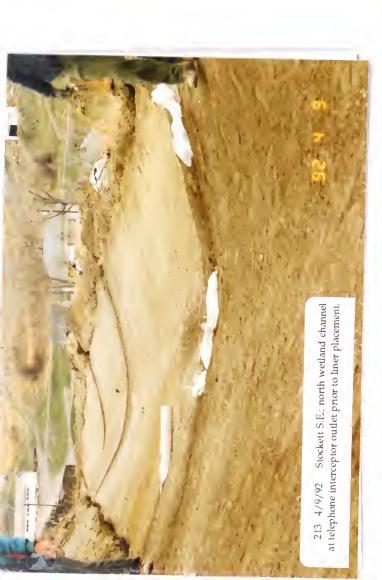
















Stockett S.E.: north wetland channel,

214 4/9/92

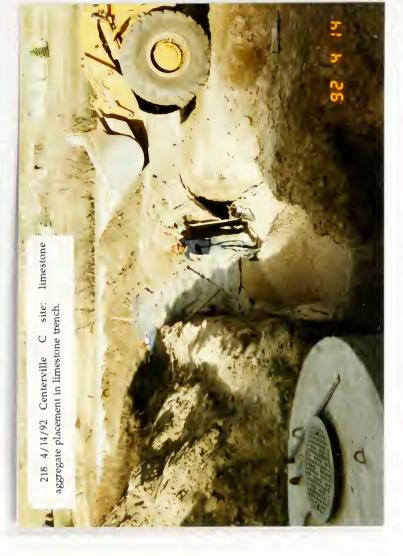






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pole interceptor prior to PVC pipe placement.

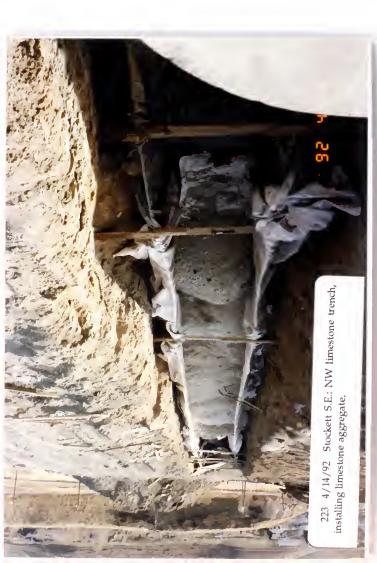


220 4/14/92 Stockett S.E.; site overview at trench above telephone pole interceptor during PVC pipe placement.

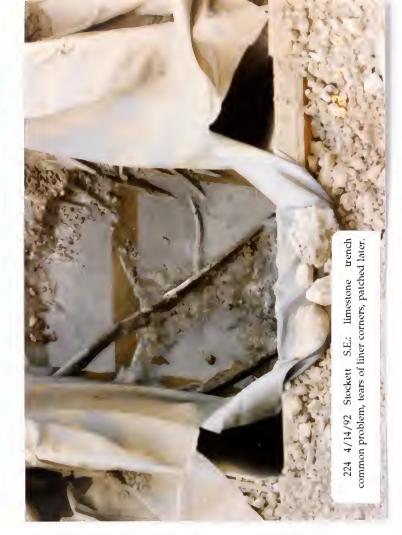


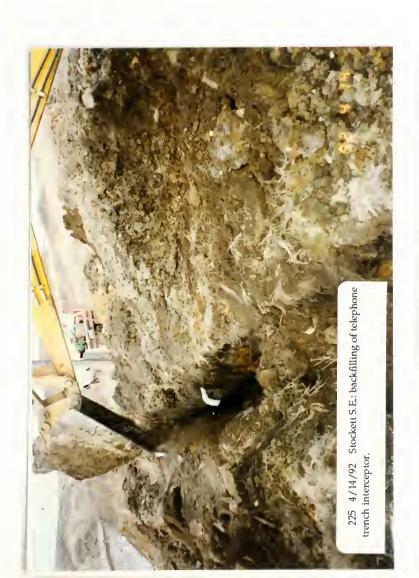
221 4/14/92 Stockett S.E.: site overview at north end of site. Note stockpiled coversoil.





end of site.



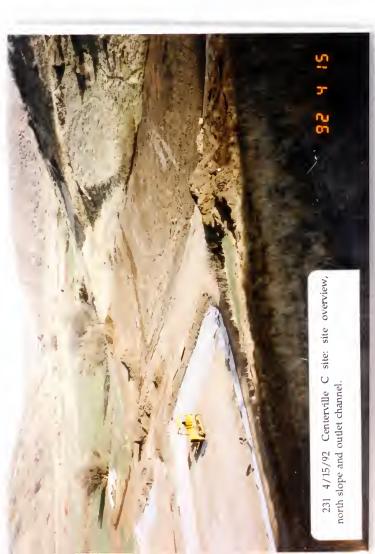














232 4/15/92 Stockett S.E.: west wetland channel, hypalon liner in place.



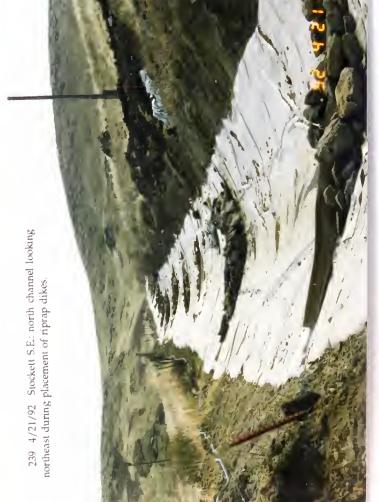






236 4/15/92 Stockett S.E.: SW limestone trench, S end, corner problems required re-excavation and repair.

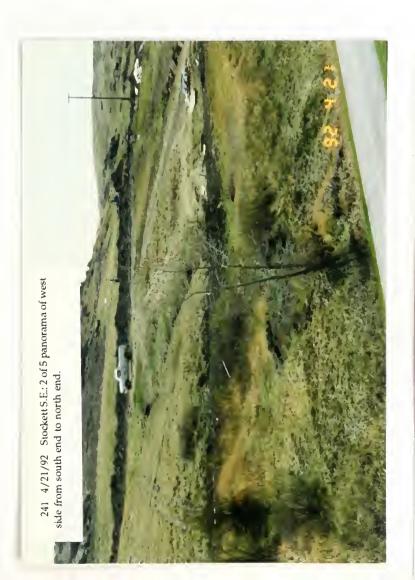






238 4/16/92 Stockett S.E.: intersection of

240 4/21/92 Stockett S.E.: 1 of 5 panorama of west side from south end to north end.







244 4/21/92 Stockett S.E.: 5 of 5 panorama of west side from south end to north end.







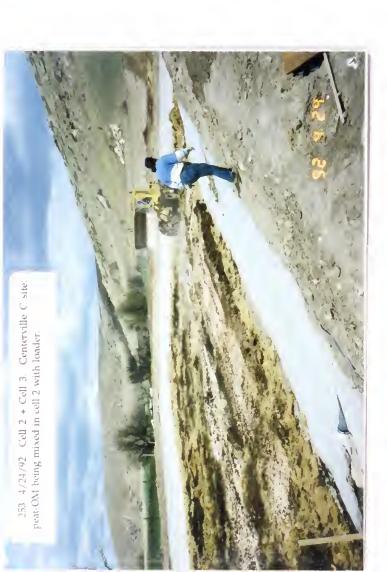




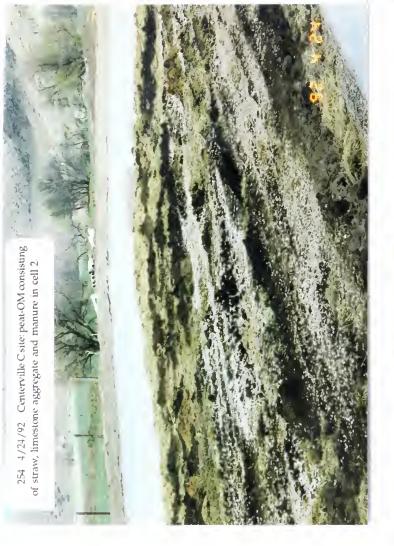






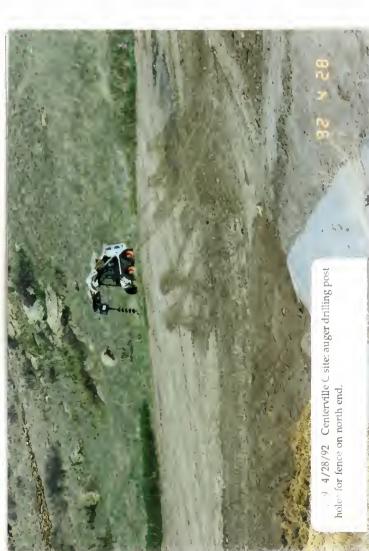




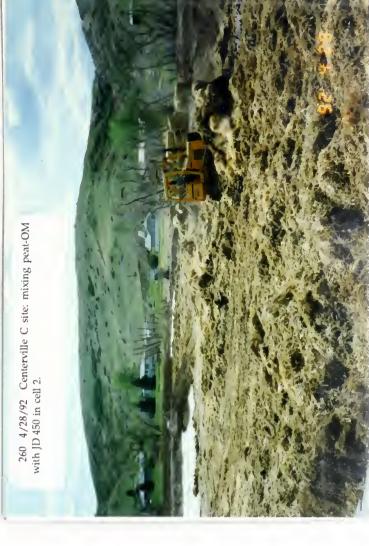








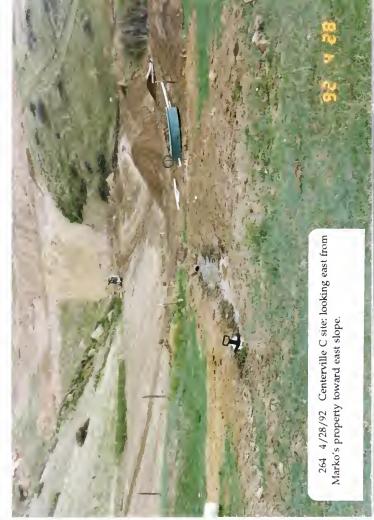
















268 4/28/92 Centerville C site: 2 of 2 panorama of wetland cells. Loader placing coversoil along cell 2





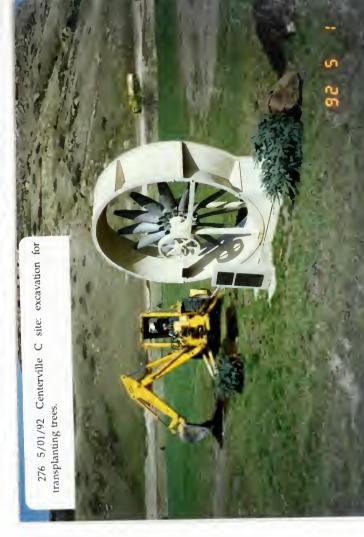


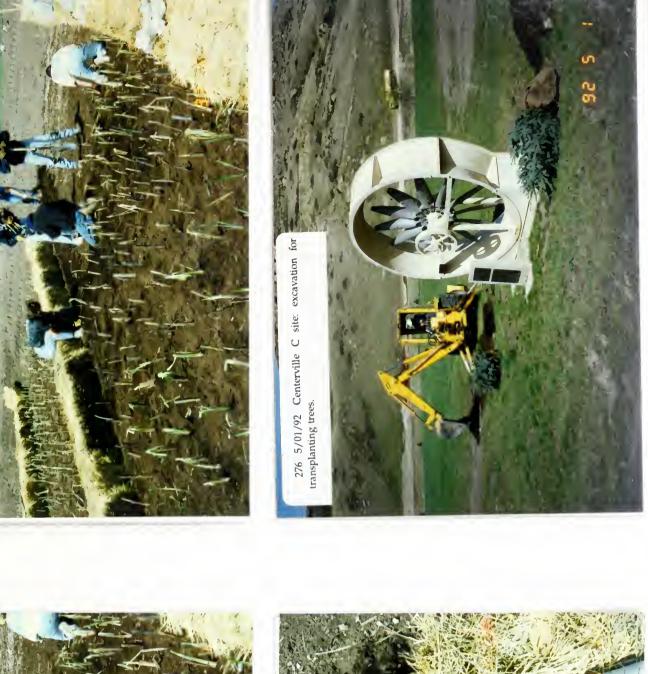


272 5/01/92 Centerville C site: planting cattails in cell 3.



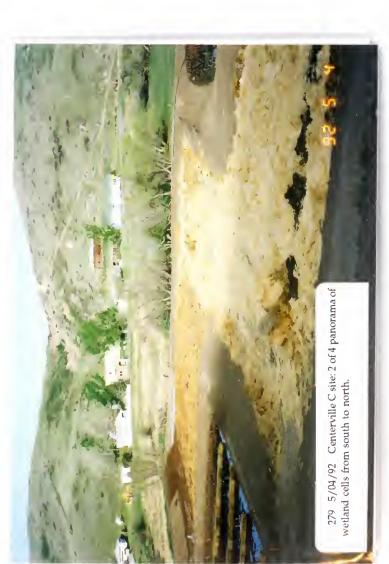
274 5/01/92 Centerville C site: planting cattails in cell 3.

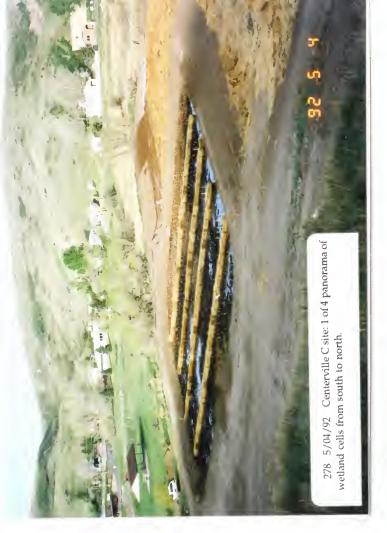




275 5/01/92 Centerville C site: closeup of cattails and best shovel type.













from Marko's channel to correct grade. Water in

channel made final grading very difficult.

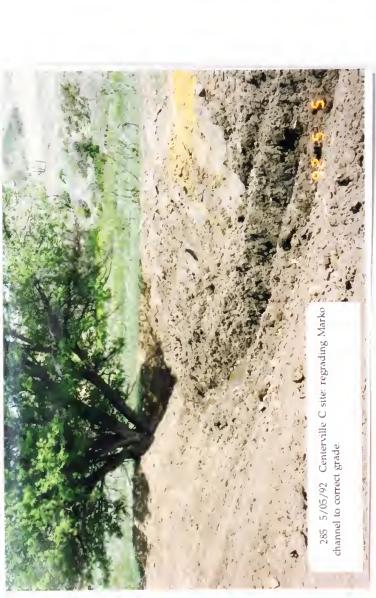
283 5/05/92 Centerville C site: excavated material

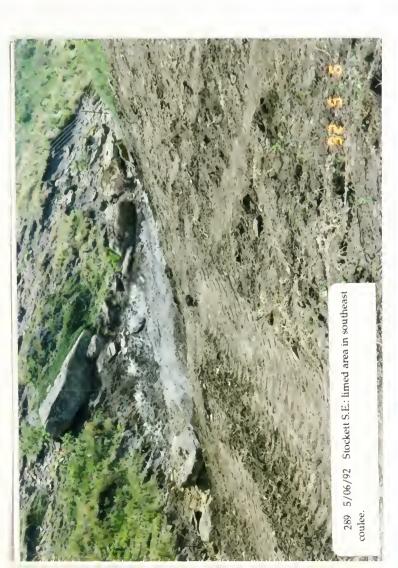








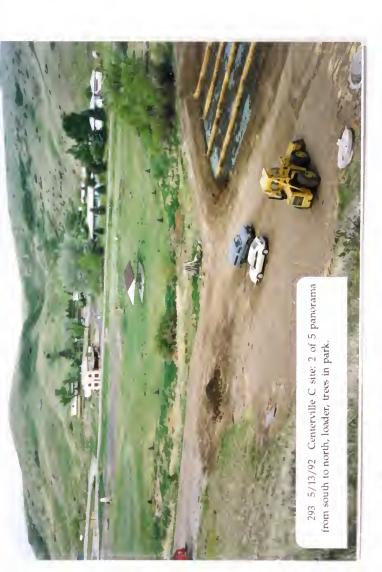




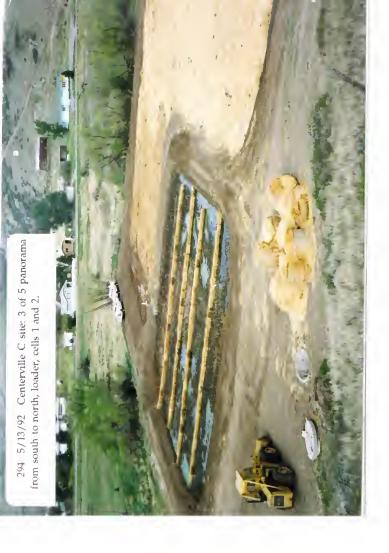
























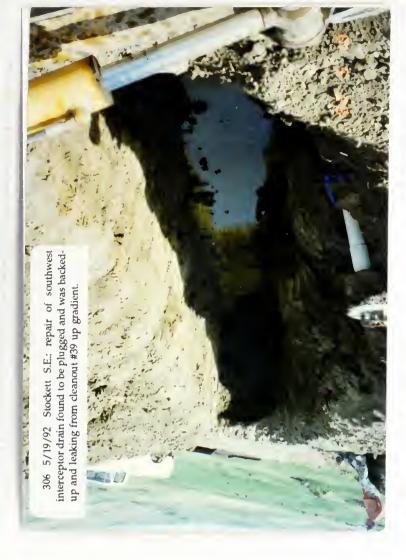
of wetland dikes.



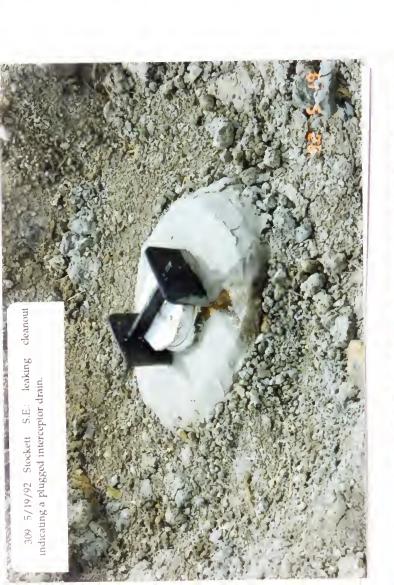


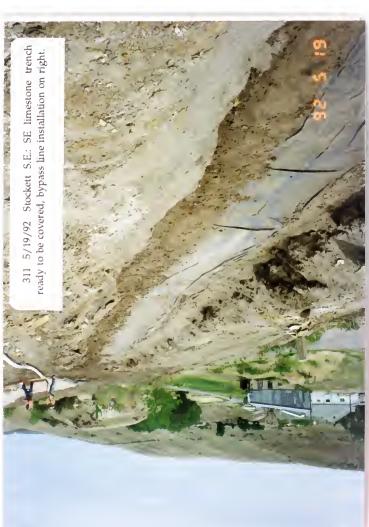




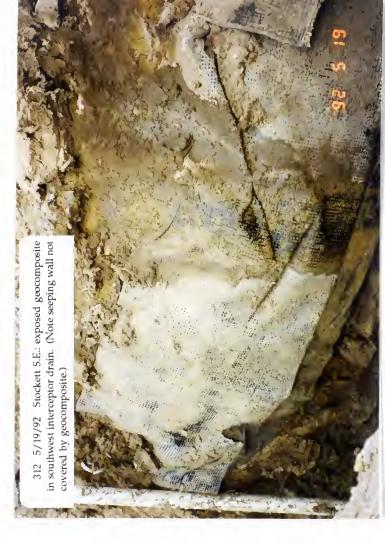


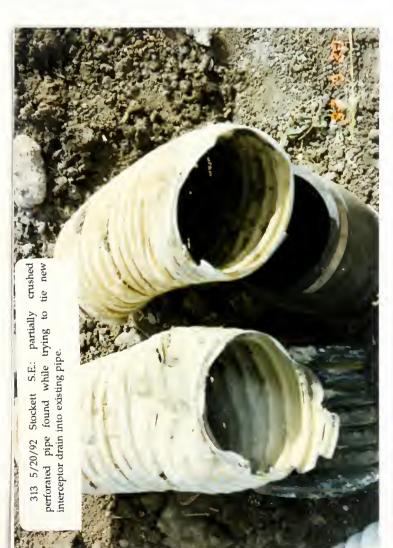




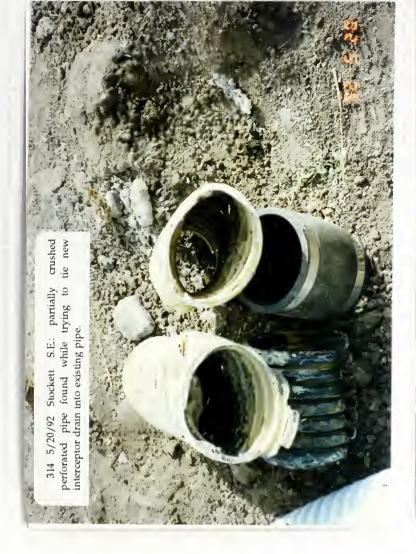












316 5/20/92 Stockett S.E.: geocomposite in place

at tie-in for new interceptor drain.







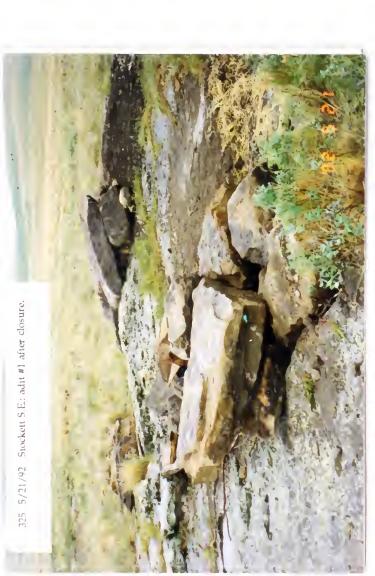








324 5/20/92 Stockett S.E.: liming slope on south west end where interceptor drain was replaced due to crushed pipe.





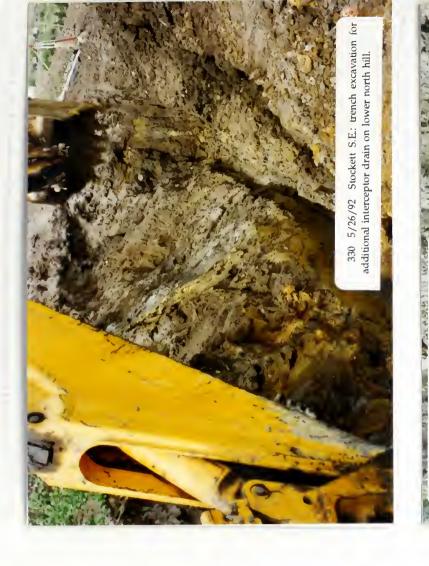


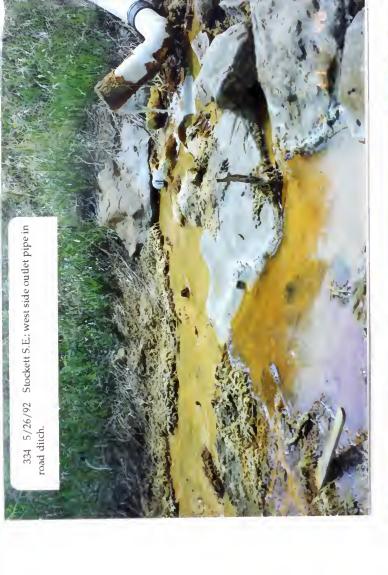






332 5/26/92 Stockett S.E.: sewer snaking at cleanout # 57.

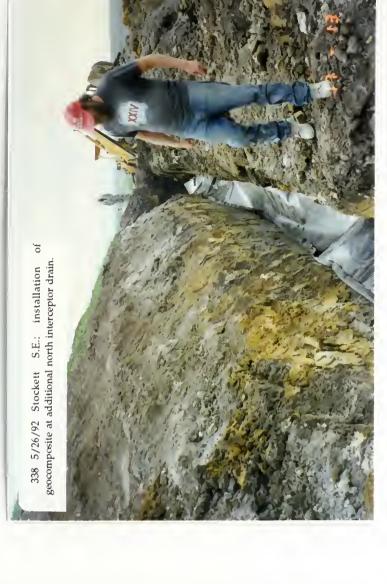


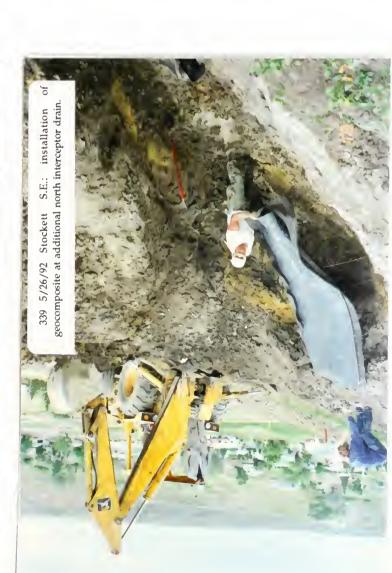












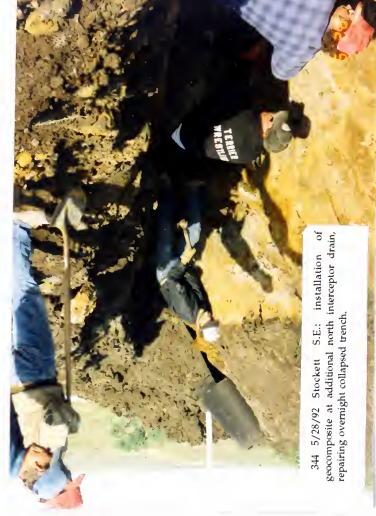
340 5/26/92 Stockett S.E.: installation of geocomposite at additional north interceptor drain.

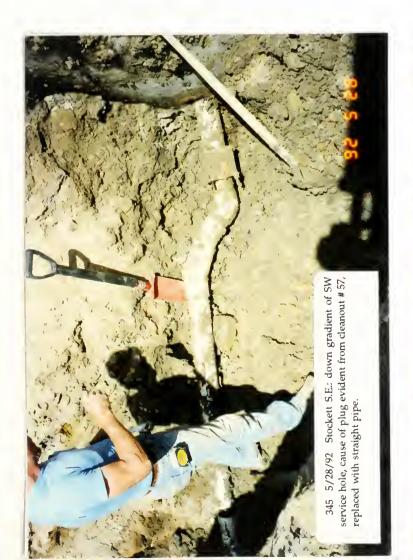




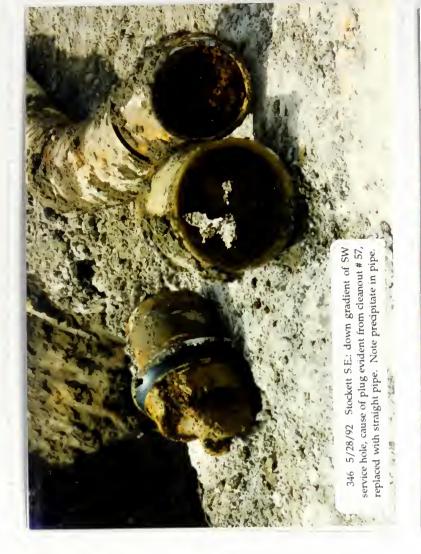










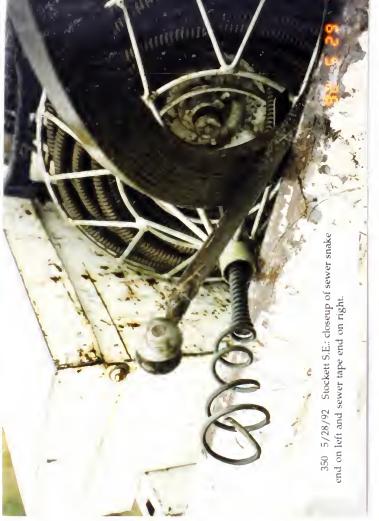


348 5/28/92 Stockett S.E.: start of excavation to

find plug in interceptor drain at SE coulee.



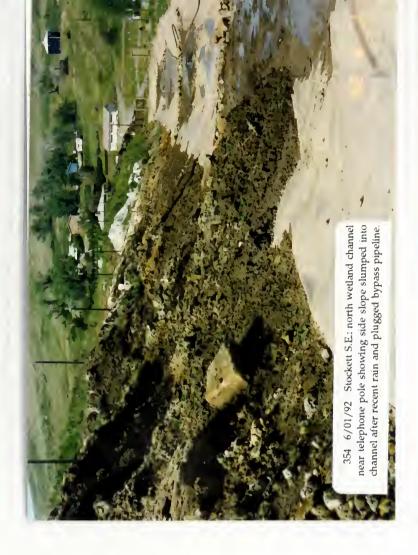












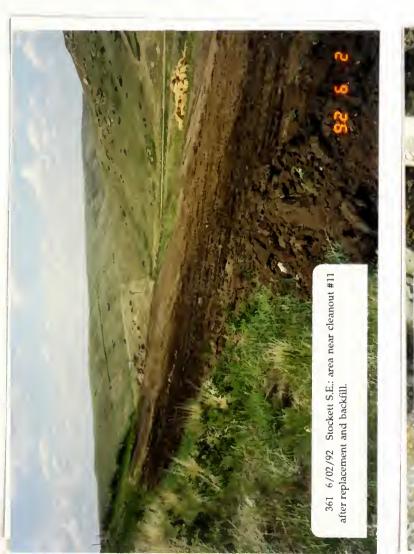
















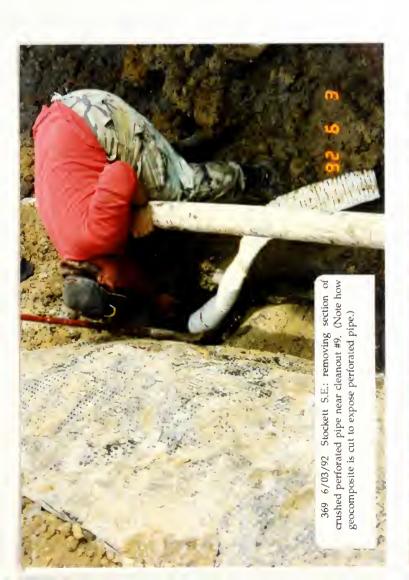




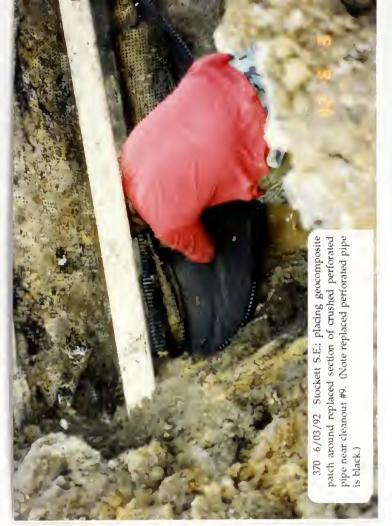












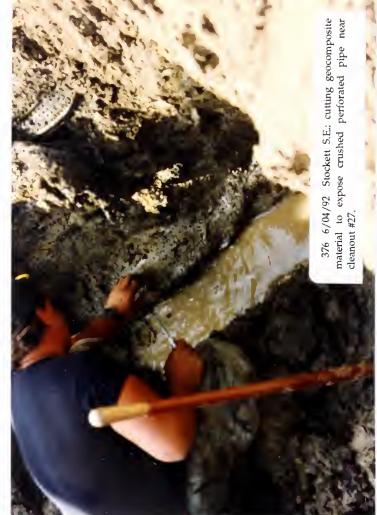


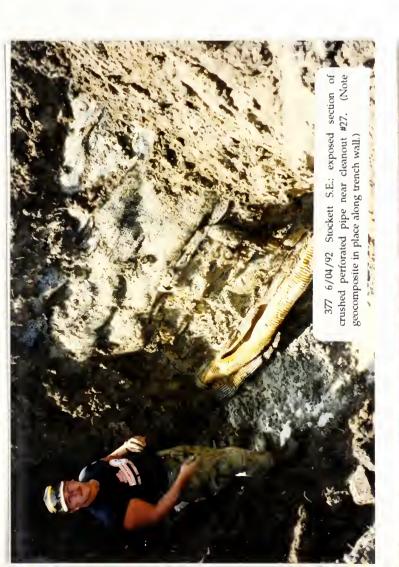
373 6/03/92 Stockett S.E.: adit #1 after all openings adequately closed.



















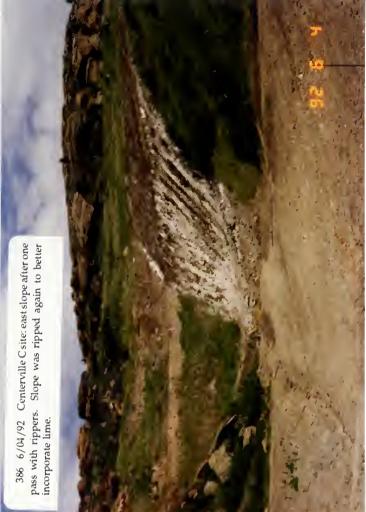


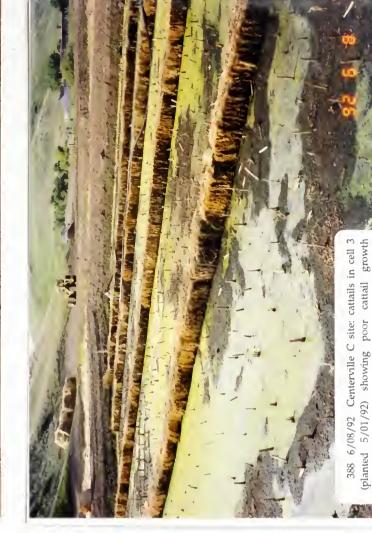










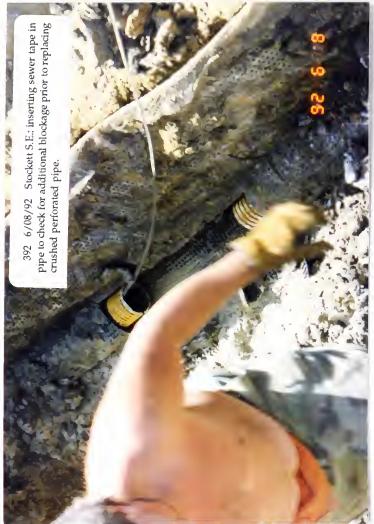


compared to cell 1.



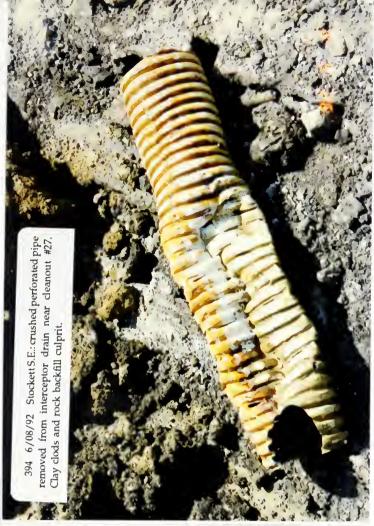






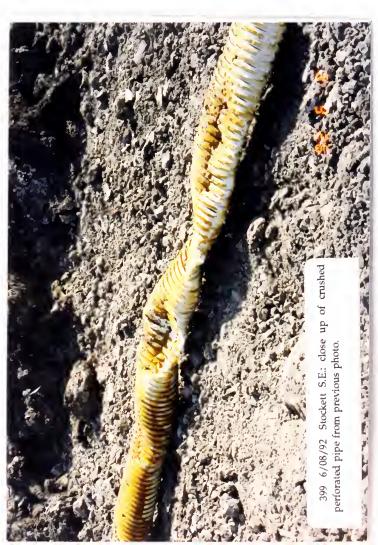












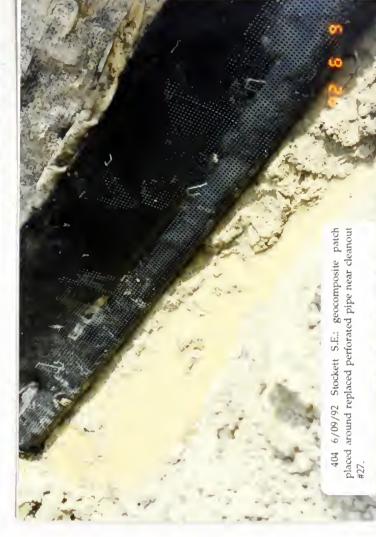








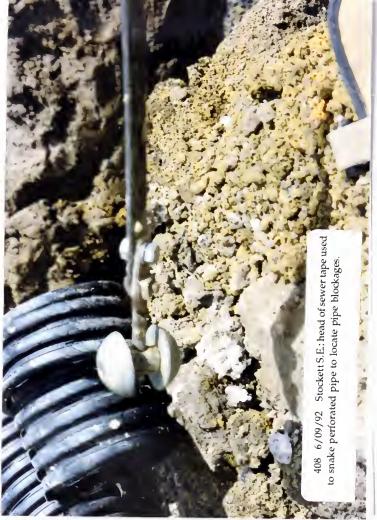








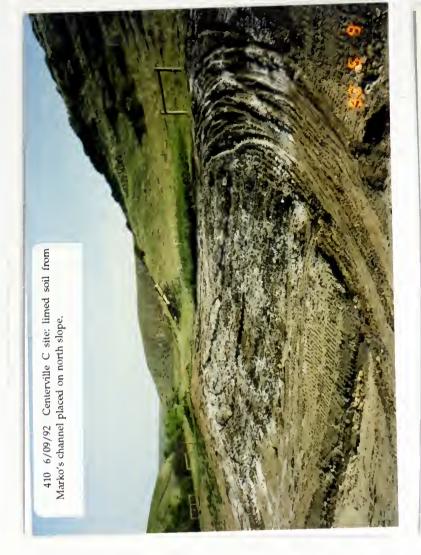








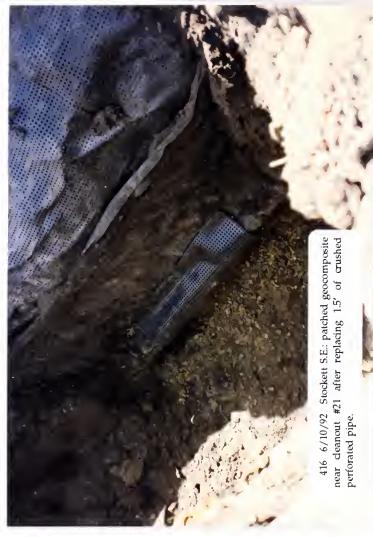
412 6/09/92 Centerville C site: east slope during coversoil placement. Coversoil was pushed upslope from base and down from terrace using D-7 dozer.































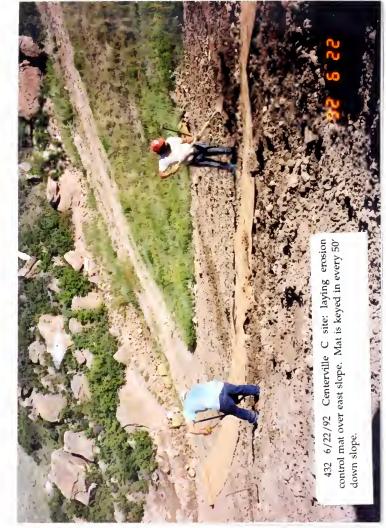












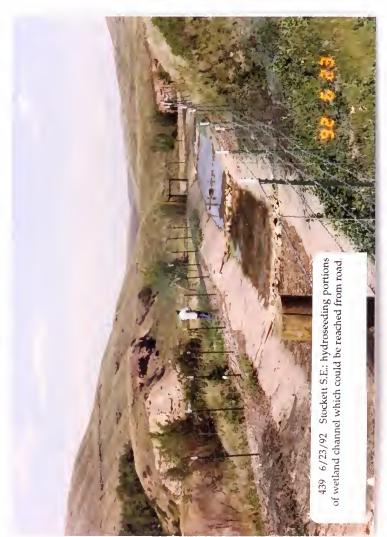






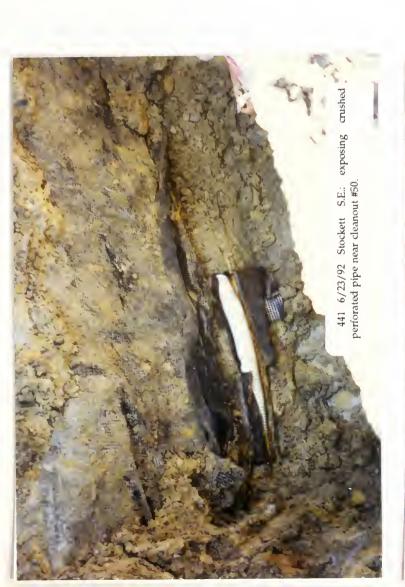






440 6/23/92 Stockett S.E.: hydroseeding portions of wetland channel which could be reached from road.









444 6/23/92 Stockett S.E.: close up of crushed

perforated pipe from previous photo.









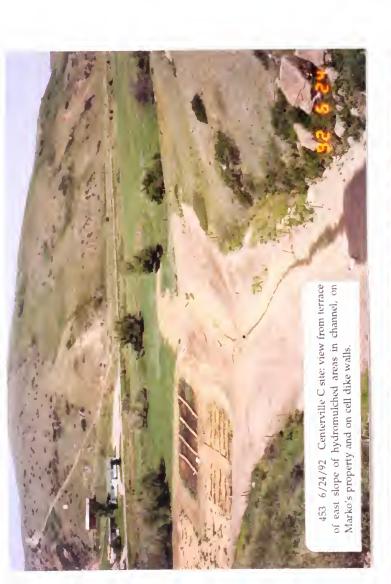


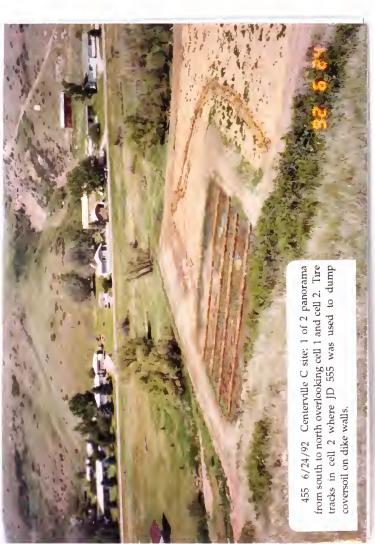


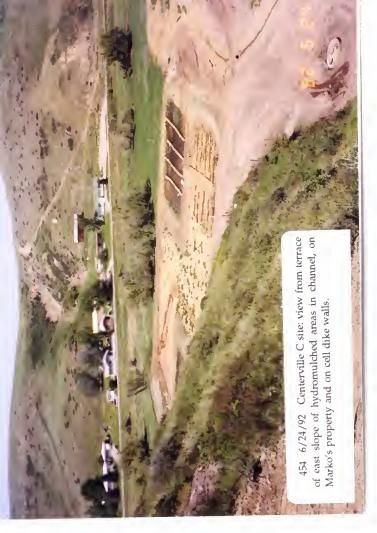
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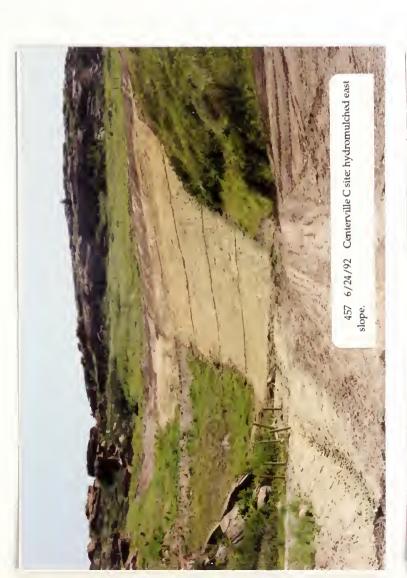




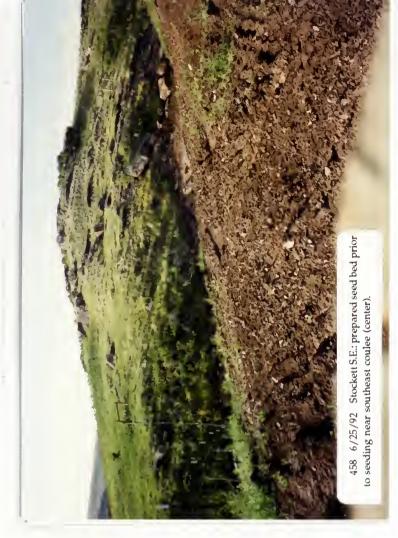




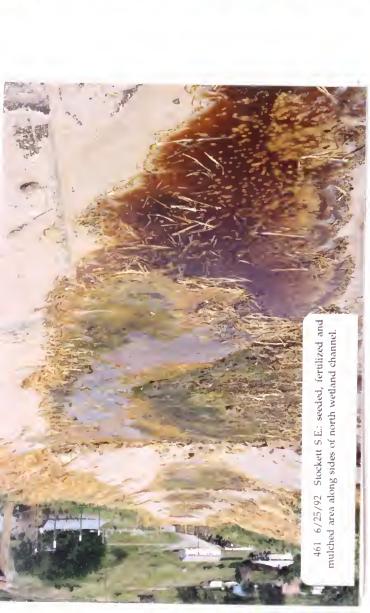


















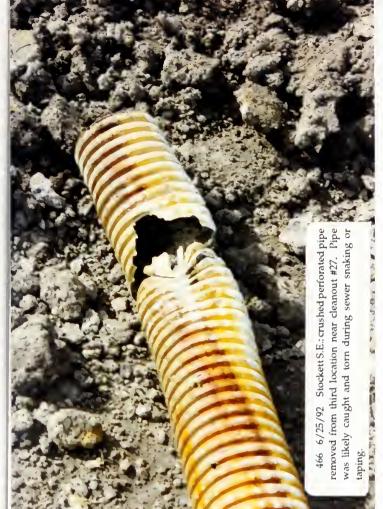




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467 6/25/92 Stockett S.E.: crushed perforated pipe removed from third location near cleanout #27. Pipe

was likely caught and torn during sewer snaking or







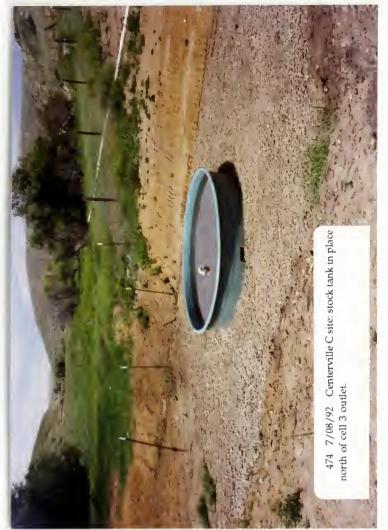






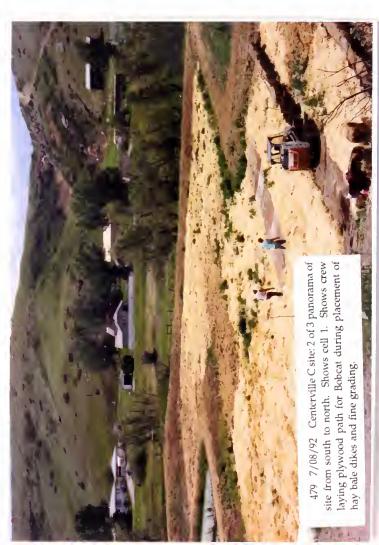


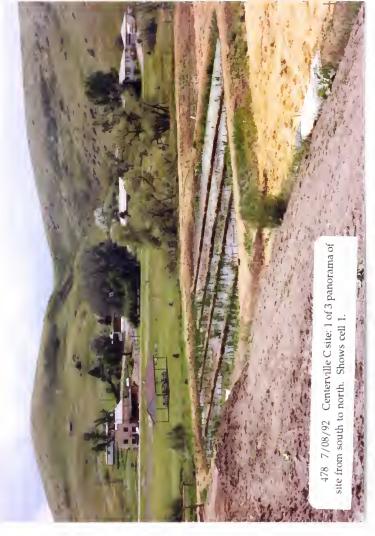


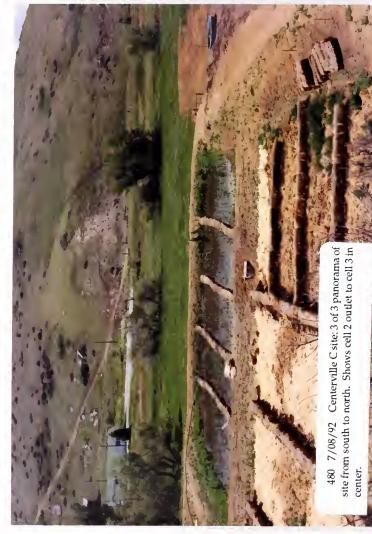












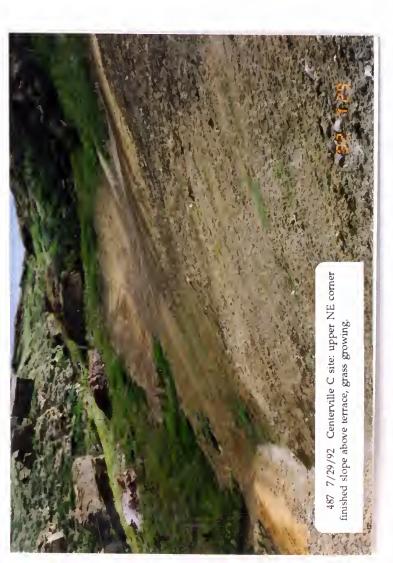




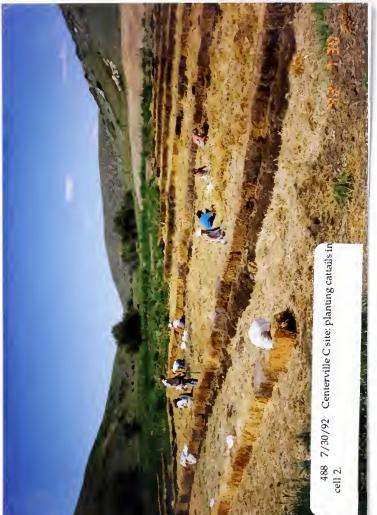




























497 7/29/92 Belt Subsidence site: access and subsidence prior to work.



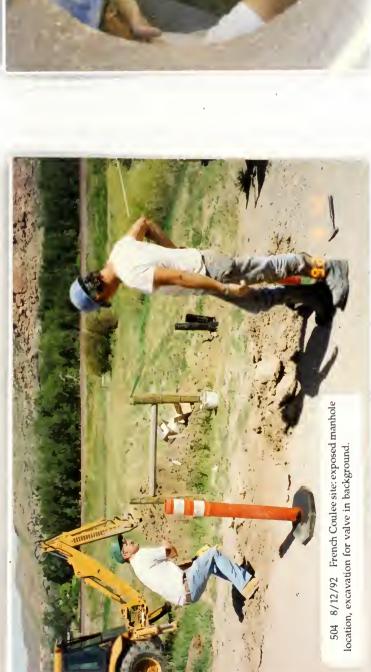
498 7/29/92 Belt Subsidence site: access prior to w -k.











505 8/12/92 French Coulee site; inside manhole after grouting.













